**In Vitro Activity of KBP-7072 against 536 Acinetobacter baumannii Complex Isolates Collected in China**

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**ABSTRACT**  
Acinetobacter baumannii has emerged globally as a difficult-to-treat nosocomial pathogen and become resistant to carbapenems, resulting in limited treatment options. KBP-7072 is a novel semisynthetic aminomethylcycline, expanded spectrum tetracycline antibacterial agent with completed phase 1 clinical development studies. This study aimed to evaluate the *in vitro* activity of KBP-7072 and several comparators against clinical *A. baumannii* isolates collected from China. A collection of 536 *A. baumannii* clinical isolates were isolated from 20 hospitals across 13 provinces and cities in China between 2018 and 2019. Antimicrobial susceptibility testing of 12 antimicrobial agents was performed utilizing the broth microdilution method recommended by CLSI. KBP-7072 has shown active antibacterial activity against 536 *A. baumannii* isolates. It inhibited the growth of all isolates at 4 mg/liter, including 372 carbapenem-resistant isolates, 37 tigecycline MIC ≥ 4 mg/liter isolates, and 138 omadacycline MIC ≥ 4 mg/liter isolates. Compared with other expanded spectrum tetracyclines, KBP-7072 (MIC<sub>90</sub> 1 mg/liter) outperformed 2-fold and 4-fold more active against 536 *A. baumannii* isolates than tigecycline (MIC<sub>90</sub> 2 mg/liter) and omadacycline (MIC<sub>90</sub> 4 mg/liter). KBP-7072 was as equally active as colistin (MIC<sub>90</sub> 1 mg/liter, 99.4% susceptible). Doxycycline (33.4% susceptible), gentamicin (31.3% susceptible), meropenem (30.6%, susceptible), imipenem (30.2% susceptible), ceftazidime (27.8% susceptible), piperacillin-tazobactam (27.2% susceptible), and levofloxacin (27.2% susceptible) showed marginally poor antibacterial activity against tested isolates according to CLSI breakpoints, except for minocycline (73.7% susceptible). KBP-7072 is a potential alternative agent for the treatment of infection caused by *A. baumannii*, including carbapenem-resistant species.

**IMPORTANCE**  
It is reported that *A. baumannii* has emerged as an intractable nosocomial pathogen in hospitals especially when it develops resistance to carbapenems and other antibiotics, which limits treatment options and leads to high mortality. In February 2017, the WHO published a list of ES<sub>K</sub>APE pathogens designated “priority status” for which new antibiotics are urgently needed. Therefore, the epidemiological surveillance and new therapeutic development of *A. baumannii* must be strengthened to confront an emerging global epidemic. KBP-7072 is a novel, expanded spectrum tetracycline antibacterial and has demonstrated good *in vitro* activity against recent geographically diverse *A. baumannii* isolates collected from North America, Europe, Latin America, and Asia-Pacific. This study has shown excellent *in vitro* activity of KBP-7072 against clinical *A. baumannii* isolates collected from different regions of China, regarded as supplementary to KBP-7072 pharmacodynamics data, which is of great significance, as it is promising an alternative treatment in CRAB isolates infections in China.

**KEYWORDS**  
carbapenem-resistant *A. baumannii*, colistin, KBP-7072, omadacycline, tigecycline
Infections caused by *Acinetobacter baumannii*, including pneumonia, bloodstream infections, urinary tract infections, skin and skin soft tissue infections, burn and surgical wound infections, endocarditis, meningitis, and osteomyelitis, commonly occur in hospitalized patients who have undergone medical treatments involving indwelling hardware, such as mechanical ventilators, intravascular catheters, urinary catheters, and drainage tubes (1–5). It is reported that *A. baumannii* has emerged as an intractable nosocomial pathogen in hospitals, especially when it develops resistance to carbapenems and other antibiotics, which limits treatment options and leads to high mortality (1, 6–9). In February 2017, the WHO published a list of pathogens for which new antibiotics are urgently needed. Within this broad list, ESKAPE (Enterococcus faecium, Staphylococcus aureus, *Klebsiella pneumoniae*, *A. baumannii*, *Pseudomonas aeruginosa*, and *Enterobacter* species) pathogens were designated “priority status” (5). The epidemiological surveillance and new therapeutic development of *A. baumannii* must be strengthened to confront an emerging global epidemic.

KBP-7072 (Fig. 1) is a novel, broad-spectrum, semisynthetic aminomethylcycline, expanded spectrum tetracycline antibacterial in clinical development for acute bacterial skin and skin structure infections (ABSSSI), community-acquired bacterial pneumonia (CAP), and complicated intraabdominal infections (cIAI) (10). It inhibits the normal function of the bacterial ribosome and has demonstrated good *in vitro* activity against recent geographically diverse, molecularly characterized, and drug-resistant *A. baumannii* isolates, which can overcome many common tetracycline resistance mechanisms (10).

KBP-7072 has been developed for oral and intravenous formulations and completed phase 1 clinical development studies for safety, tolerability, pharmacokinetics (ClinicalTrials.gov identifier NCT02454361), and multiple ascending doses in healthy subjects (ClinicalTrials.gov identifier NCT02654626) in December 2015 (10). The pharmacokinetics/pharmacodynamics (PK/PD) index area under the concentration-time curve (AUC)/MIC correlated well with efficacy (11). The PK results in animal models are consistent with single and multiple ascending dose studies in healthy volunteers and confirm the suitability of KBP-7072 for once-daily oral and intravenous administration in clinical studies (12). In this study, we evaluated the *in vitro* activity of KBP-7072 and comparators utilizing broth microdilution against 536 *A. baumannii* clinical isolates isolated from 20 hospitals across 13 provinces and cities in China between 2018 and 2019.

**RESULTS**

*In vitro activity of KBP-7072 and comparators against 536* *A. baumannii* *isolates.*

KBP-7072 has shown active antibacterial activity against 536 *A. baumannii* isolates with MIC50 and MIC90 of 0.5 mg/liter and 1 mg/liter, respectively, and 4 mg/liter of KBP-7072 can inhibit the growth of all tested isolates, including carbapenem-resistant isolates (Table 1 and Fig. 2). Compared with other expanded spectrum tetracyclines, the MIC50 of KBP-7072 (MIC50 1 mg/liter) was 2-fold and 4-fold lower than that for tigecycline (MIC50 2 mg/liter) and omadacycline (MIC50 4 mg/liter). Moreover, tigecycline and omadacycline need to reach 16 mg/liter and 32 mg/liter *in vitro*, respectively, which can inhibit the growth of all tested isolates. Colistin has also shown excellent antibacterial activity against *A. baumannii* isolates *in vitro* with MIC50 at 0.5 mg/liter and MIC90 at 1 mg/liter, consistent with KBP-7072. Doxycycline (33.4% susceptible), gentamicin (31.3% susceptible), meropenem (30.6%, susceptible), imipenem (30.2% susceptible), ceftazidime (27.8% susceptible), piperacillin-tazobactam (27.2% susceptible), and levofloxacin (27.2% susceptible) showed marginally poor antibacterial activity among the comparators.
activity against tested isolates according to CLSI breakpoints. Overall, the other antimicrobial agents showed slightly in vitro activity against tested isolates, except for tigecycline, omadacycline, minocycline (73.7% susceptible), and colistin (99.4% susceptible).

**In vitro activity of KBP-7072 and comparators against 372 CRAB isolates.** In this study, 372 of tested isolates (69.4%) were carbapenem-resistant *A. baumannii* (CRAB), defined as, resistant to at least one of carbapenem antibiotics (imipenem or meropenem), and 164 (30.6%) were susceptible or intermediate to imipenem and meropenem (Fig. 3 and 4). The \( \text{MIC}_{50} \) and \( \text{MIC}_{90} \) of KBP-7072 against CRAB isolates were 0.5 mg/liter and 1 mg/liter, respectively. In comparison with tigecycline (MIC\(_{90} \) 2 mg/liter) and omadacycline (MIC\(_{90} \) 4 mg/liter), KBP-7072 demonstrated more significant antibacterial activity against CRAB isolates. Similarly, colistin (100% susceptible) has also shown excellent antibacterial activity with MIC\(_{90} \) at 0.5 mg/liter (Table 2). Other comparator agents, like doxycycline (6.7% susceptible), gentamicin (7.3% susceptible), ceftazidime (0.8% susceptible), piperacillin-tazobactam (0.3% susceptible), and levofloxacin (1.1% susceptible) were inactive against CRAB isolates with less than 8% susceptible, while minocycline showed some antibacterial activity with 65.1% susceptible. Notably, CRAB isolates usually exhibit multidrug-resistant characteristics. Carbapenem-susceptible or intermediate *A. baumannii* isolates were susceptible to most of tested antimicrobial agents (over 85% susceptibility). The MIC90 of KBP-7072, omadacycline, and tigecycline were 0.25, 1, and 0.5 mg/liter, respectively (Table 3).

**In vitro activity of KBP-7072 and comparators against 37 tigecycline or 138 omadacycline MIC \( \geq 4 \) mg/liter *A. baumannii isolates.** KBP-7072 (MIC\(_{90} \) 2 mg/liter)

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**TABLE 1** In vitro activities of KBP-7072 and comparators against 536 *A. baumannii* isolates

| Antimicrobial agents | MIC ranges | \( \text{MIC}_{50} \) | \( \text{MIC}_{90} \) | Mode | R% | S% |
|----------------------|------------|------------------|------------------|------|----|----|
| KBP-7072             | \( \leq 0.015 \)–4 | 0.5              | 1                | 0.5  |    |    |
| Omadacycline         | 0.06–32    | 2                | 4                | 2    |    |    |
| Tigecycline          | 0.06–16    | 1                | 2                | 1    |    |    |
| Doxycycline          | \( \leq 0.06 \)–128 | 32               | 64               | 32   | 66 | 33.4 |
| Minocycline          | \( \leq 0.06 \)–64 | 4                | 8                | 4    | 8  | 73.7 |
| Gentamicin           | 0.125–128  | >128             | >128             | >128 | 68.1 | 31.3 |
| Ceftazidime          | 0.5–128    | 128              | >128             | >128 | 72  | 27.8 |
| Imipenem             | \( \leq 0.06 \)–128 | 64               | >128             | 64   | 69.2 | 30.2 |
| Meropenem            | \( \leq 0.06 \)–128 | 32               | 128              | 64   | 69  | 30.6 |
| Piperacillin-tazobactam | \( \leq 0.06 \)–128 | >128             | >128             | >128 | 72  | 27.2 |
| Levofloxacin         | \( \leq 0.06 \)–128 | 8                | 32               | 8    | 62.5 | 27.2 |
| Colistin             | 0.125–8    | 0.5              | 1                | 0.5  | 0.6 | 99.4 |

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**FIG 2** MIC distribution of KBP-7072, tigecycline, and omadacycline for 536 *A. baumannii* isolates.
and colistin (MIC$\text{MIC}_{\text{MIC}}$, 2 mg/liter) had a more active antibacterial activity against 37 $A. baumannii$ isolates with tigecycline MIC $\approx 4 \text{mg/liter}$ (MIC$\text{MIC}_{\text{MIC}}$, 8 mg/liter). Omadacycline has shown antibacterial activity against these 37 tested isolates with MIC$\text{MIC}_{\text{MIC}}$ of 8 mg/liter. There were three tested isolates with tigecycline MIC at 8 mg/liter (KBP-7072 at 2, 2, and 2 mg/liter, respectively; omadacycline at 8, 16, and 16 mg/liter, respectively) and one isolate with tigecycline MIC at 16 mg/liter (KBP-7072 at 4 mg/liter; omadacycline at 32 mg/liter). In addition, these tested isolates were all resistant to imipenem, meropenem, ceftazidime, piperacillin-tazobactam, and 97.3% resistant to doxycycline and levofloxacin, 94.6% to gentamicin, and 35.1% to minocycline (Table 4).

KBP-7072 (MIC$\text{MIC}_{\text{MIC}}$, 1 mg/liter) and colistin (MIC$\text{MIC}_{\text{MIC}}$, 1 mg/liter) had a more active antibacterial activity against 138 isolates with omadacycline MIC $\approx 4 \text{mg/liter}$ (MIC$\text{MIC}_{\text{MIC}}$, 8 mg/liter). Tigecycline has shown similar antibacterial activity against the 138 tested isolates with MIC$\text{MIC}_{\text{MIC}}$ of 4 mg/liter. There were three tested isolates with omadacycline MIC at 16 mg/liter (KBP-7072 at 0.5, 2, and 2 mg/liter, respectively; tigecycline at 2, 8, and 8 mg/liter, respectively) and one isolate with omadacycline MIC at 32 mg/liter (KBP-7072 at 4 mg/liter; tigecycline at 16 mg/liter). In addition, these tested isolates were all resistant to ceftazidime, piperacillin-tazobactam, levofloxacin, and 99.3% resistant to imipenem, 98.6% to meropenem, 93.5% to doxycycline, 92.8% to gentamicin, 96.4% to levofloxacin, and 24.6% to minocycline (Table 5).
**DISCUSSION**

*A. baumannii* isolate is one kind of the leading cause of nosocomial infections throughout the world. The surveillance results of 54 tertiary hospitals of China Antimicrobial Surveillance Network (CHINET) in 2021 showed that the isolation rate of *A. baumannii* among all clinical strains ranked fifth (accounting for 7.62%) (https://www.chinets.com/Data/AntibioticDrugFast). There is a resistant rate of *A. baumannii* to meropenem and imipenem has exceeded 65% since 2015. As observed in this study, 69.4% of *A. baumannii* isolates (372/536) were resistant to carbapenem antibiotics, which was consistent with the increasing tendency of CHINET (https://www.chinets.com/Data/GermYear). Similar to the results of CHINET surveillance, approximately 45% of all global *A. baumannii* isolates are considered as multidrug-resistant, in which the resistance rate is over 90% in Turkey and Greece, and 60% in the United States, Latin America, and the Middle East (5). Owing to the characteristics of multidrug-resistance or extensively drug-resistance, the infections caused by *A. baumannii* isolates were usually associated with high mortality, particularly in the bloodstream and central nervous system infections (9). An increasing trend was observed in the mortality of patients infected with *A. baumannii* from a 10-year prospective multicenter study in hospitalized patients with bloodstream infection (13).

As the priority pathogens list for research and development of new antibiotics by WHO suggests, new therapeutic development is urgently needed because few antibiotics are available for treating infections caused by CRAB isolates. To date, some new drugs were developed to combat these intractable pathogens, including ceftiderocol, sulbactam-durlobactam, and ceferpine-zidebactam (14). Several studies have demonstrated ceftiderocol good *in vitro* activity against multidrug-resistant *A. baumannii* isolates (15, 16). Cefiderocol time-dependent *in vivo* efficacy and various preclinical infection models have proved that

| Antimicrobial agents | MIC (mg/liter) | MIC ranges | MIC<sub>50</sub> | MIC<sub>90</sub> | Mode | R% | S% |
|---------------------|----------------|------------|-----------------|-----------------|------|----|----|
| KBP-7072            | ≥0.015–4       | 0.5        | 1               | 0.5             |      |    |    |
| Omadacycline        | 0.125–32       | 2          | 4               | 2               |      |    |    |
| Tigecycline         | 0.25–16        | 2          | 2               | 2               |      |    |    |
| Doxycycline         | ≤0.06–128      | 32         | 64              | 32              | 92.7 | 6.7|
| Minocycline         | ≤0.06–64       | 4          | 16              | 4               | 11.3 | 65.1|
| Gentamicin          | 0.5–128        | >128       | >128            | >128            | 92.5 | 7.3|
| Ceftazidime         | 2–128          | 128        | >128            | >128            | 99.2 | 0.8|
| Imipenem            | 4–128          | 128        | >128            | 64              | 99.7 | 0  |
| Meropenem           | 1–128          | 64         | 128             | 64              | 99.5 | 0.3|
| Piperacillin-tazobactam | ≤0.06–128 | >128       | >128            | >128            | 99.5 | 0.3|
| Levofoxacin         | ≤0.06–128      | 8          | 32              | 8               | 84.9 | 1.1|
| Colistin            | 0.125–2        | 0.5        | 0.5             | 0.5             | 0    | 100|

**TABLE 2** In vitro activities of KBP-7072 and comparators against 372 CRAB isolates

| Antimicrobial agents | MIC (mg/liter) | MIC ranges | MIC<sub>50</sub> | MIC<sub>90</sub> | Mode | R% | S% |
|---------------------|----------------|------------|-----------------|-----------------|------|----|----|
| KBP-7072            | ≤0.015–4       | 0.06       | 0.25            | 0.06            |      |    |    |
| Omadacycline        | 0.06–4         | 0.25       | 1               | 0.125           |      |    |    |
| Tigecycline         | 0.06–2         | 0.125      | 0.5             | 0.125           |      |    |    |
| Doxycycline         | ≤0.06–64       | 0.125      | 2               | ≤0.06           | 4.3  | 95.1|
| Minocycline         | ≤0.06–16       | ≤0.06      | 1               | ≤0.06           | 0.6  | 94.4|
| Gentamicin          | 0.125–128      | 0.5        | >128            | 0.5             | 11.7 | 87  |
| Ceftazidime         | 0.5–128        | 4          | 8               | 4               | 9.3  | 90.1|
| Imipenem            | ≤0.06–2        | 0.25       | 2               | 0.25            | 0    | 100 |
| Meropenem           | ≤0.06–2        | 0.25       | 1               | 0.25            | 0    | 100 |
| Piperacillin-tazobactam | ≤0.06–128 | >128       | >128            | >128            | 99.5 | 0.3|
| Levofoxacin         | ≤0.06–128      | 0.125      | 8               | ≤0.06           | 10.5 | 87.7|
| Colistin            | 0.25–8         | 0.5        | 1               | 0.25            | 1.9  | 98.1|

**TABLE 3** In vitro activities of KBP-7072 and comparators against 162 carbapenem-susceptible *A. baumannii* isolates
cefofiderocol is efficacious against CRAB isolates, which is predicted by its in vitro activity and supported by a reliable PK/PD profile (17–19). Sulbactam-durlobactam had excellent in vitro potency against A. baumannii isolates (20, 21). Cefepime-zidebactam also has shown good in vitro and in vivo antibacterial activity against A. baumannii isolates (22, 23). Whereas these new antimicrobial agents have not been approved in the market of China.

Currently, polymyxins (colistin and polymyxin B) and tigecycline are the last-resort antibiotics for the treatment of infection caused by CRAB isolates. Although colistin has shown well in vitro antibacterial activity against CRAB isolates with 99.4% susceptibility in this study and other reports (84.6% to 92.8% susceptibility), (10, 24–26), clinical and PK/PD data demonstrate colistin and polymyxin B have limited clinical efficacy and combination with one or more active antimicrobial agents should be used. Several studies have demonstrated that colistin monotherapy against A. baumannii isolates is not inferior to colistin-based or meropenem combination therapy but has greater nephrotoxicity. (27–29). The emergence of tetracycline resistance determinants tet(X3), tet(X4), and tet(X5) in A. baumannii isolates is also worrisome because these genes confer tigecycline resistance, which could inactivate all tetracyclines, including tigecycline and newly U.S. Food and Drug Administration approved eravacycline and omadacycline, and will probably increase more intractable severe infections caused by CRAB isolates in the future (30, 31). Moreover, the correlation between tet genes and KBP-7072 is unclear and needs further research. The efficacy of tigecycline in treating CRAB isolates infections also remains debatable, due to its unfavorable pharmacokinetics in the blood and the lung (32). A high dose regimen of tigecycline has been proved efficient in the treatment of hospital-acquired pneumonia and ventilator-associated pneumonia, and the toxicity should be closely monitored because the

**TABLE 4** In vitro activities of KBP-7072 and comparators against 37 tigecycline MIC ≥ 4 mg/liter A. baumannii isolates

| Antimicrobial agents | MIC (mg/liter) | MIC ranges | MIC50 | MIC90 | Mode | R% | S% |
|----------------------|---------------|------------|-------|-------|------|----|----|
| KPB-7072             | 0.5–4         | 0.5        | 1     | 0.5   | 1    | 1  | 1  |
| Omadacycline         | 2–32          | 8          | 8     | 8     | 8    | 8  | 8  |
| Tigecycline          | 4–16          | 4          | 8     | 4     | 4    | 4  | 4  |
| Doxycycline          | 2–128         | 64         | 128   | 64    | 97.3 | 2.7| 2.7 |
| Minocycline          | 1–32          | 4          | 16    | 4     | 35.1 | 54.1| 54.1 |
| Gentamicin           | 1–128         | >128       | >128  | >128  | 94.6 | 5.4| 5.4 |
| Cefazidime           | 64–128        | >128       | >128  | >128  | 100  | 0  | 0  |
| Imipenem             | 32–128        | 128        | >128  | 128   | 100  | 0  | 0  |
| Meropenem            | 16–128        | 64         | 128   | 64    | 100  | 0  | 0  |
| Piperacillin-tazobactam | 128–128   | >128       | >128  | >128  | 100  | 0  | 0  |
| Levofloxacin         | 4–128         | 16         | 64    | 16    | 97.3 | 0  | 0  |
| Colistin             | 0.125–2       | 0.5        | 2     | 0.5   | 0    | 100| 100|

**TABLE 5** In vitro activities of KBP-7072 and comparators against 138 omadacycline MIC ≥ 4 mg/liter A. baumannii isolates

| Antimicrobial agents | MIC (mg/liter) | MIC ranges | MIC50 | MIC90 | Mode | R% | S% |
|----------------------|---------------|------------|-------|-------|------|----|----|
| KPB-7072             | 0.5–4         | 0.5        | 1     | 0.5   | 1    | 1  | 1  |
| Omadacycline         | 4–32          | 4          | 8     | 4     | 4    | 4  | 4  |
| Tigecycline          | 0.5–16        | 2          | 4     | 2     | 2    | 2  | 2  |
| Doxycycline          | 1–128         | 64         | 64    | 64    | 93.5 | 5.8| 5.8 |
| Minocycline          | 0.5–64        | 4          | 16    | 4     | 24.6 | 50.7| 50.7 |
| Gentamicin           | 1–128         | >128       | >128  | >128  | 92.8 | 6.5| 6.5 |
| Cefazidime           | 64–128        | 128        | >128  | 128   | 100  | 0  | 0  |
| Imipenem             | 2–128         | 128        | >128  | 128   | 99.3 | 0.7| 0.7 |
| Meropenem            | 2–128         | 64         | 128   | 64    | 98.6 | 0.7| 0.7 |
| Piperacillin-tazobactam | 128–128   | >128       | >128  | >128  | 100  | 0  | 0  |
| Levofloxacin         | 4–128         | 16         | 64    | 8     | 96.4 | 0  | 0  |
| Colistin             | 0.125–2       | 0.5        | 1     | 0.5   | 0    | 100| 100|
cases with a decrease in plasma fibrinogen concentration and severe coagulopathy have been reported (33–38). As there are few drugs available in treating *A. baumannii* isolates infections, we urgently need new agents to combat intractable pathogens with reliable PK/PD.

This study demonstrated that KBP-7072 has active *in vitro* antibacterial activity against 536 *A. baumannii* isolates (MIC$_{50}$/MIC$_{90}$ 0.5/1 mg/liter) as supplementary of KBP-7072 pharmacodynamics data in China, which were consistent with the results of the study reported in 2020 that KBP-7072 showed excellent *in vitro* activity against 531 geographically diverse *A. baumannii* isolates (MIC$_{50}$/MIC$_{90}$ 0.25/1 mg/liter) collected from North America, Europe, Latin America, and Asia-Pacific (10). In this study, KBP-7072 was significantly superior to other comparators like β-lactams, fluoroquinolone, and aminoglycoside. KBP-7072 was equally active to colistin, outperformed other tetracycline-class comparators against carbapenem-resistant isolates, and maintained activity against ESBL- and MBL-producing isolates (10). In conclusion, KBP-7072 is a potential alternative agent for the treatment of infections caused by *A. baumannii* isolates, including carbapenem-resistant isolates.

**MATERIALS AND METHODS**

**Clinical strains.** A total of 536 nonduplicate *A. baumannii* isolates was collected from 20 hospitals in 13 provinces and cities in China between January 2018 and December 2019. These *A. baumannii* isolates were isolated from sputum (69.6%), bronchial alveolar lavage fluid (4.3%), blood (6.9%), secreta (4.5%), urine (3.2%), pleural fluid (2.8%), cerebrospinal fluid (2.1%), ascris (1.9%), pus (1.3%), bile (0.9%), catheter (0.4%), drainage (0.4%), aseptic body fluid (0.4%), and other sources (1.5%). Species identification was confirmed by matrix-assisted laser desorption/ionization time of flight mass spectrometry (MALDI-TOF/MS) system (bioMérieux, France).

**Antimicrobial susceptibility testing.** The antimicrobial susceptibility testing of KBP-7072 and comparators was performed utilizing the broth microdilution method according to the Clinical and Laboratory Standards Institute (CLSI) M07 (39). Minimum inhibitory concentrations (MICs) of KBP-7072, omadacycline, tigecycline, doxycycline, minocycline, gentamicin, ceftazidime, imipenem, meropenem, piperacillin-tazobactam, levofloxacin, and colistin were determined. All analyses were performed using WHONET software (version 5.6). Quality control and interpretation of the results were performed according to 2020 CLSI breakpoints for all agents except for the colistin CLSI guideline (40). Colistin MICs were interpreted using 2020 EUCAST MIC breakpoints (susceptible, ≤2 mg/liter; resistant, >2 mg/liter) [http://www.eucast.org].

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We declare no conflict of interest.

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