Supplementary data 1(IC50) plots

A

K562

PC-3

HepG2

MCF-7

H460

HT-29

B

L02

HUVEC

Electronic Supplementary Material (ESI) for RSC Advances.
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Fig. 1 IC$_{50}$ plots of 5-Acetamido-1-(methoxybenzyl) isatin in tumor and normal cell lines. (A) IC$_{50}$ plots of 5-Acetamido-1-(methoxybenzyl) isatin in K562, PC-3, HepG2, MCF-7, H460 and HT-29 cell lines. (B) IC$_{50}$ plots of 5-Acetamido-1-(methoxybenzyl) isatin in L02, HUVEC and HEK-293 cell lines.

supplementary data 2

**Table 1** Therapeutic index (TI) of CPT and 5-Acetamido-1-(methoxybenzyl) isatin

| Cell line                                      | CPT | 5-Acetamido-1-(methoxybenzyl) isatin |
|------------------------------------------------|-----|-------------------------------------|
| Human leukemia (K562)                         | 3.13| 28.34                               |
| Human Prostate cancer (PC-3)                  | 0.17| 21.63                               |
| Liver cancer (HepG2)                         | 3.57| 19.57                               |
| Human Breast cancer (MCF-7)                  | 0.68| 2.44                                |
| Non-small cell lung cancer (H460)             | 6.25| 0.29                                |
| Human Colon cancer (HT-29)                   | 6.25| 0.24                                |

Supplementary data 3

**Table 2** Information about the antibodies which were used during experiments
| Antibody name                 | Manufacturer                                  | Catalog number |
|------------------------------|-----------------------------------------------|----------------|
| Anti-PARP                    | Becton, Dickinson and Company                  | 611038         |
| Cleaved PARP                 | Cell Signaling Technology, Inc.                | 96645          |
| Caspase-3 Rabbit mAb         | Tianjin Sungene Biotech Co., Ltd.             | SGA0214        |
| Bcl-2 Rabbit mAb             | Tianjin Sungene Biotech Co., Ltd              | SGA0208        |
| Bax Rabbit mAb               | Tianjin Sungene Biotech Co., Ltd              | SGA0207        |
| Bcl-xl Rabbit mAb            | Cell Signaling Technology, Inc                 | 27645          |
| CDK1 Antibody                | Tianjin Sungene Biotech Co., Ltd              | SGA0220        |
| Cyclin B1 Antibody           | Cell Signaling Technology, Inc                 | 41355          |
| CDC25C Antibody              | Cell Signaling Technology, Inc                 | 46885          |
| p-CDC25C Antibody            | Cell Signaling Technology, Inc                 | 49015          |
| p-CDK1 (Thr14) Antibody      | Cell Signaling Technology, Inc                 | 25435          |
| Anti-tubulin                 | Sigma-Aldrich (Shanghai) Trading Co. Ltd. (China) | T8203          |