| Substitution    | IC50 | Activity |
|-----------------|------|----------|
|                 | Background | Effect | *Effect | Background | Effect | *Effect |
| H111T/T111H     | 0.03  | 0.002    | 0.08    | 0.04       | 0.16   | 0.18    |
| Q111R/R111Q     | 0.14  | 0.009    | 0.22    | 0.01       | 0.057  | 0.13    |
| H111E/E111H     | 1.4E-4| 2.1E-4   | 1.8E-7  | 9.0E-4     | 0.04   | 0.21    |
| N122D           | 6.6E-5| 1.9E-4   | 0.0012  | 0.003      | 0.002  | 0.16    |
| H122D/D122H     | 0.006 | 1.4E-4   | 2.5E-4  | 0.028      | 0.35   | 0.124   |

Notes:
H111T/T111H (FER/MON)
Q111R/R111Q (GRA/OST/SNG)
H111E/E111H (FER/KEE)
N122D (GRA/CHI)
H122D/D122H (FER/TEG/RAT)
Bold values indicate significant raw ANOVA p-values.