

Substitution	IC50			Activity		
	Background	Effect	Background *Effect	Background	Effect	Background *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.