Target Name	Prostacyclin receptor
Target TTD ID	TTDS00170

Target Species	Mice
Chemical Type	1-hydroxyl-2-substituted phenyl-4,4,5,5-tetramethylimidazolines
Mode of Action	Antagonist
QSAR Model 1	$PTV_{90} = -1424.11(\pm 240.56) + 795.06(\pm 126.04) \times IDET - 20.92(\pm 3.71) \times Mor07e + 20.49(\pm 5.13) \times JGI1 - 10.26(\pm 2.65) \times MATS6v$ $N = 20,\ R = 0.94,\ S = 4.47,\ \overline{e} = 3.84,\ R_{LOO} = 0.88,\ S_{LOO} = 6.06,\ \overline{e}_{LOO} = 5.22,$ $F = 27.75,\ p < 10^{-5},\ AIC = 44.40,\ FIT = 3.05$
Molecular Descriptor	Access the following web-servers to compute molecular descriptors: **MoDel** and **e-dragon** N is the number of compounds; PTV90 (i.e. the PTV value measured at 90 min) is considered as the analgesic activity of a compound; IDET,IDET, Mor07e, Mor13e and MATS6v, descriptors selected from e-dragon server; R, the regression coefficient and F, F-ratio.
Reference	A new class of analgesic agents toward prostacyclin receptor inhibition: Synthesis, biological studies and QSAR analysis of 1-hydroxyl-2-substituted phenyl-4,4,5,5-tetramethylimidazolines. *European Journal of Medicinal Chemistry* 43 (2008) 1048-1058