

Target Name	Follicle stimulating hormone receptor
Target TTD ID	TTDS00438

Target Species	Human
Chemical Type	6-amino-4-phenyltetrahydroquinoline derivatives
Mode of Action	Antagonist
QSAR Model 1	$pIC_{50} = 1.300(\pm 0.283)I_{NH-(CO)[X-Y]} + 6.267(\pm 0.234),$ $n = 19, r = 0.744, r^2 = 0.554, r^2_{Adj} = 0.527, s = 0.574, F = 21.077,$ $p = 0.000, q^2 = 0.432, S_{press} = 0.647, SDEP = 0.612, DW = 1.440.$
QSAR Model 2	$pIC_{50} = 1.501(\pm 0.253)I_{NH-(CO)[X-Y]} - 0.871(\pm 0.323)I_{sub[R_1]} + 6.267(\pm 0.200),$ $n = 19, r = 0.833, r^2 = 0.693, r^2_{Adj} = 0.655, s = 0.490, F = 18.08, p = 0.000,$ $q^2 = 0.567, S_{press} = 0.583, SDEP = 0.535, DW = 1.795.$
QSAR Model 3	$pIC_{50} = 0.304(\pm 0.081)C \log P + 1.621(\pm 0.190)I_{NH-(CO)[X-Y]}$ $- 1.079(\pm 0.245)I_{sub[R_1]} + 4.168(\pm 0.576),$ $n = 19, r = 0.918, r^2 = 0.843, r^2_{Adj} = 0.811, s = 0.363, F = 26.76, p = 0.000,$ $q^2 = 0.754, S_{press} = 0.453, SDEP = 0.403, DW = 2.576.$
Molecular Descriptor	<p>Access the following web-servers to compute molecular descriptors: <a href="#">MoDel</a> and <a href="#">e-dragon</a></p> <p>ClogP is the calculated partition coefficient of compounds in octanol/water and a measure of the hydrophobicity of compounds. CMR is the calculated molar refractivity based on the Lorentz–Lorentz equation, <math>MR = (n^2 - 1)/(n^2 + 2) MW/d</math>, where n is the index of refraction, MW represents molecular</p>

	weight of the compound and $d$ is the density. An indicator variable designated as I with a relevant subscript was assigned 1.0 when a particular substituent or chemical feature is present and 0 if absent.
<b>Reference</b>	First QSAR report on FSH receptor antagonistic activity: Quantitative investigations on physico-chemical and structural features among 6-amino-4-phenyltetrahydroquinoline derivatives. <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 15 (2005) 4496–4501