

Target Name	SK _{Ca} channel
Target TTD ID	TTDS00145

Target Species	Guinea pig
Target Location	Hypatocytes
Chemical Type	Apamin-sensitive SK _{Ca} channel blockers
Mode of Action	Blocker
QSAR Model 1	$pIC_{50} = 0.086(\pm 0.011)\alpha + 2.06(\pm 0.28)$ $n = 20, \quad r = 0.89, \quad r^2 = 0.79, \quad s = 0.522, \quad F = 66.48,$
QSAR Model 2	$pIC_{50} = 0.00435(\pm 0.001)V + 2.01(\pm 0.33)$ $n = 20, \quad r = 0.85, \quad r^2 = 0.73, \quad s = 0.589, \quad F = 48.34.$
Molecular Descriptor	<p>Access the following web-servers to compute molecular descriptors: MoDel and e-dragon</p> <p>n is the number of compounds; r, the correlation coefficient; s, the standard error of the estimate; F, the Fischer variance ratio; V, the molecular volume; α: mean alpha polarizabilities.</p>
Reference	<p>Defining determinant molecular properties for the blockade of the apamin-sensitive SK_{Ca} channel in guinea-pig hepatocytes: the influence of polarizability and molecular geometry. <i>Bioorganic & Medicinal Chemistry Letters</i> 14 (2004) 4031–4035</p>