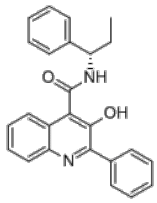
ProbeChem®
Expedite Your Scientific Research

Data Sheet

WWW.PROBECHEM.COM

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Talnetant
Cat. No.	:	PC-21365
CAS No.	:	174636-32-9
Molecular Formula	:	$C_{25}H_{22}N_2O_2$
Molecular Weight	:	382.46
Target	:	Neurokinin Receptor
Solubility	:	10 mM in DMSO



Biological Activity

Talnetant (SB223412) is a potent, selective, competitive and brain-permeable neurokinin-3 receptor (**NK3R**) antagonist with Ki of 1.4 nM in hNK-3-CHO cells.
Talnetant (SB223412) displays >100-fold selectivity for hNK-3 relative to the hNK-2 receptor and has no affinity for hNK-1.
Talnetant (SB223412) reduces the accumulation of NKB-induced IP in U-2OS cells expressing the human NK3 receptor.
Talnetant (SB223412) inhibit the miosis induced by senktide in a dose-dependent manner with an ED50 of 0.44mg/kg in conscious rabbits.
Talnetant (SB223412) significantly attenuate senktide-induced "wet dog wagging" behavior in a dose-dependent manner.
Talnetant (SB223412) significantly increase extracellular dopamine and norepinephrine in the medial prefrontal cortex and reduce haloperidol-induced increases in dopamine levels in the vomeronasal nucleus of freely moving guinea pigs.

References

Giardina GA, et al. ***J Med Chem***. 1999 Mar 25;42(6):1053.

Dawson LA, et al. ***Neuropsychopharmacology***. 2008 Jun;33(7):1642-52.

E-mail: tech@probechem.com