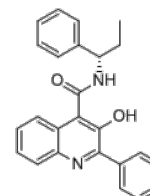


Product Name : Talnetant
Cat. No. : PC-21365
CAS No. : 174636-32-9
Molecular Formula : C₂₅H₂₂N₂O₂
Molecular Weight : 382.46
Target : Neurokinin Receptor
Solubility : 10 mM in DMSO



Biological Activity

Talnetant (SB223412) is a potent, selective, competitive and brain-permeable neurokinin-3 receptor (NK3R) antagonist with K_i 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.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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