SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

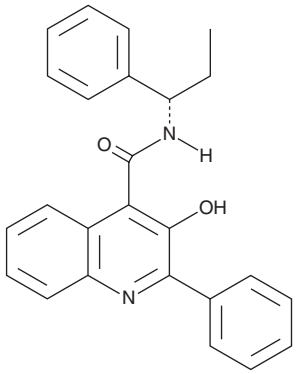
www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Talnetant

Item No. 29699



CAS Registry No.:	174636-32-9
Formal Name:	3-hydroxy-2-phenyl-N-[(1S)-1-phenylpropyl]-4-quinolinecarboxamide
Synonym:	SB-223412
MF:	$C_{25}H_{22}N_2O_2$
FW:	382.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 230, 252 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Talnetant is supplied as a crystalline solid. A stock solution may be made by dissolving the talnetant in the solvent of choice, which should be purged with an inert gas. Talnetant is soluble in the organic solvent DMSO at a concentration of approximately 25 mg/ml.

Description

Talnetant is an antagonist of the neurokinin-3 (NK_3) receptor (K_i = 1 nM).[1] It is selective for NK_3 over NK_1 and NK_2 receptors (K_is = 144 and >100,000 nM, respectively, in CHO cells expressing recombinant human receptors). Talnetant inhibits calcium mobilization induced by neurokinin B (Item No. 24542) in HEK293 cells expressing human NK_3 receptors (IC_{50} = 16.6 nM). It inhibits contractions induced by the NK_3 receptor agonist senktide (Item No. 16721) in isolated rabbit iris sphincter muscle (pD_2 = 9.1). Talnetant (5-20 mg/kg) reduces senktide-induced head shakes and tail whips in mice. It also inhibits senktide-induced wet-dog shakes, increases extracellular dopamine and norepinephrine in the medial prefrontal cortex, and attenuates haloperidol-induced increases in nucleus accumbens dopamine levels in guinea pigs.[2]

References

1. Sarau, H.M., Griswold, D.E., Potts, W., *et al.* Nonpeptide tachykinin receptor antagonists: I. Pharmacological and pharmacokinetic characterization of SB 223412, a novel, potent and selective neurokinin-3 receptor antagonist. *J. Pharmacol. Exp. Ther.* **281(3)**, 1303-1311 (1997).
2. Dawson, L.A., Cato, K.J., Scott, C., *et al. In vitro* and *in vivo* characterization of the non-peptide NK_3 receptor antagonist SB-223412 (talnetant): Potential therapeutic utility in the treatment of schizophrenia. *Neuropsychopharmacology* **33(7)**, 1642-1652 (2008).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM