

Product Data Sheet

Product Name: CS-003 Free base

Cat. No.: GC35751

Chemical Properties

Cas. No. 191672-52-3

SMILES O=C(N1C[C@@](CCN2CCC3(CC2)C4=CC=CC=C4C[S@@]3=O)(C5=CC=C(Cl)C(Cl)=C5)OCC1)C6=CC(OC)=C(OC)C(OC)=C6

Formula C₃₄H₃₈Cl₂N₂O₆S

M.Wt

673.65

Solubility Soluble in DMSO

Storage

Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

CS-003 Free base (CS-003), a triple tachykinin receptor antagonist, shows high affinities for human (Neurokinin) NK1, NK2 and NK3 receptors with Ki values of 2.3 nM, 0.54 nM and 0.74 nM, respectively. CS-003 Free base (CS-003) has therapeutic efficacy on respiratory diseases associated with neurokinins. NK1|2.3 nM (Ki)|NK2|0.54 nM (Ki)|NK3|0.74 nM (Ki)

CS-003 (0.01-10 μM; 24 hours) inhibits NK1, NK2 or NK3 induced inositol phosphate formation in a concentration-dependent manner with pA₂ values of 8.7, 9.4 and 9.5 μM, respectively[1].

CS-003 (intravenous injection; 0.01-3.0 mg/kg; 5 min before neurokinin A/B/C injection) inhibits substance P-induced tracheal vascular hyperpermeability, neurokinin A- and neurokinin B-induced bronchoconstriction with ID₅₀ values of 0.13, 0.040 and 0.063 mg/kg, respectively[1].

[1]. Tsuchida H, et al. Novel triple neurokinin receptor antagonist CS-003 strongly

Caution: Product has not been fully validated for medical applications. For research use only.

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inhibits neurokinin related responses. Eur J Pharmacol. 2008 May 31;586(1-3):306-12.

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