
Product Data Sheet

Product Name: NS 6740
Cat. No.: GC50355

Chemical Properties

Cas. No. 753499-14-8

SMILES O=C(N1CCN2CCC1CC2)C(O3)=CC=C3C4=CC(C(F)(F)F)=CC=C4.Cl

Formula C19H19F3N2O2.HCl M.Wt 400.82

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

High affinity $\alpha 7$ nAChR partial agonist ($K_i = 1.1$ nM in rat; $E_{max} < 10\%$ of the response to ACh in rat and human). Inhibits ACh ($IC_{50} = 2.7$ nM) at $\alpha 7$ nAChR. Reduces LPS-induced TNF- α release from microglia enriched cultures. Anti-inflammatory.

Briggs et al (2009) Role of channel activation in cognitive enhancement mediated by $\alpha 7$ nicotinic acetylcholine receptors. Br.J.Pharmacol. 158 1486 PMID:19845675 |Thomsen et al (2012) The $\alpha 7$ nicotinic acetylcholine receptor ligands methyllycaconitine, NS6740 and GTS-21 reduce lipopolysaccharide-induced TNF- α release from microglia. J.Neuroimmunol. 251 65 PMID:22884467 |Papke et al (2015) The analgesic-like properties of the alpha7 nAChR silent agonist NS6740 is associated with non-conducting conformations of the receptor. Neuropharmacology 91 34 PMID:25497451

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

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