

Product Name : HT-0712

Synonyms : IPL-455903

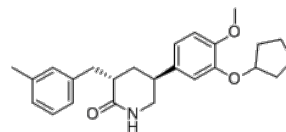
Cat No. : M15336

CAS Number : 617720-02-2

Molecular Formula : C₂₅H₃₁NO₃

Formula Weight : 393.53

Chemical Name : (3S,5S)-5-(3-(cyclopentyloxy)-4-methoxyphenyl)-3-(3-methylbenzyl)piperidin-2-one



Description : HT-0712 (IPL-455903) is a novel potent, selective PDE4 inhibitor with IC₅₀ of 0.15 μM for PDE4D3, without effect on PDE1B, PDE3A, and PDE10A; facilitates expression of a CRE-luciferase reporter gene and expression of the CREB target-gene somatostatin in SK-N-MC neuroblastoma cells, abolishes the long-term memory defect of CBP[±] mice, enhances long-term memory formation in normal young mice at brain concentrations similar to those found to increase CRE-mediated gene expression in hippocampal neurons. Alzheimer Disease Phase 2 Clinical

Pathway : Angiogenesis

Target : PDE

Receptor : PDE

Solubility : —

SMILES : O=C1NC[C@H](C2=CC=C(OC)C(OC3CCCC3)=C2)C[C@H]1CC4=CC=CC(C)=C4

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Peters M, et al. Neuropsychopharmacology. 2014 Dec;39(13):2938-48. 2. MacDonald E, et al. Neurorehabil Neural Repair. 2007 Nov-Dec;21(6):486-96. 3. Bourchouladze R, et al. Proc Natl Acad Sci U S A. 2003 Sep 2;100(18):10518-22.