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DATASHEET

FCH-2996413 sodium (Peripherally restricted HCAD DREADD actuator) [Water Soluble]

Product overview

Name FCH-2996413 sodium (Peripherally restricted HCAD DREADD actuator) [Water Soluble]

Cat No HB10013
Biological action Activator
Purity >98%

DescriptionNovel, selective activator of the peripherally restricted HCAD DREADD. Does not cross the BBB.

Water soluble.

Biological Data

Biological descriptionNovel DREADD actuator for the first peripherally restricted DREADD system named the HCAD

DREADD system. Water soluble. The HCAD system enables precise study of peripheral physiology

without CNS interference.

FCH-2996413 does not cross the BBB (unlike other DREADD ligands (e.g. $\frac{CNO \& DCZ}{DCZ}$), so can selectively activate the novel, peripherally restricted HCAD G_i DREADD. Few DREADD studies have

been conducted in the PNS to date.

FCH-2996413 has excellent drug-like properties, peripherally restricted pharmacokinetics and clean off-target profiles. The HCAD system also selectively reduces pain in mice by targeting peripheral tissues of DRG (dorsal root ganglion). Active in vivo. FCH-2996413 is a racemic mixture which

includes the racemates AR2599088 ('088) and AR259089 ('089).

Solubility & Handling

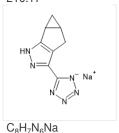
Storage instructions Important -20°C

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

Chemical Data

Chemical name Molecular Weight Chemical structure rac-(2R,4R)-7-(1H-1,2,3,4-tetrazol-5-yl)-8,9-diazatricyclo[4.3.0.0,2,4]nona-1(6),7-diene, sodium salt 210.17



Molecular Formula

SMILES [Na+].[H][C@@]12C[C@]1([H])C1=C(C2)C(=NN1)C1=NN=N[N-]1

Source Synthetic

InChi InChi=1/C8H7N6.Na/c1-3-2-5-6(4(1)3)9-10-7(5)8-11-13-14-12-8;/h3-4H,1-2H2,(H-,9,10,11,12,13,14)

;/q-1;+1/t3-,4-;/s2

Appearance white solid

References

Structure-guided design of a peripherally restricted chemogenetic system.

Kang HJ et al (2024) Cell 187 **PubMedID**

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