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DATASHEET

FCH-2296413 (Peripherally restricted HCAD DREADD actuator)

Product overview

Name FCH-2296413 (Peripherally restricted HCAD DREADD actuator)

Cat No HB13194
Biological action Activator
Purity >99%

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

Images



Biological Data

Biological description

Novel DREADD actuator for the first peripherally restricted DREADD system named the HCAD DREADD system. This system enables precise study of peripheral physiology without CNS interference.

Unlike other DREADD ligands (e.g. CNO & DCZ), FCH-2296413 does not cross the BBB so is able to selectively activate the peripherally restricted HCAD G_i.DREADD. To date, relatively few DREADD studies have been conducted in the PNS.

FCH-2296413 has excellent drug-like properties, peripherally restricted pharmacokinetics and clean off-target profiles. The HCAD system has been shown to selectively reduce pain in mice by targeting peripheral tissues of dorsal root ganglion (DRG). Active *in-vivo*. FCH-2296413 is a racemic mixture which includes the racemates AR2599088 ('088) and AR259089 ('089).

FCH-2296413 sodium salt (Peripherally restricted HCAD DREADD actuator) [Water Soluble] also available.

Solubility overview Storage instructions Storage of solutions Soluble in DMSO (100mM) -20°C

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Stable for ambient temperature shipping. Follow storage instructions on receipt.

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

for human or veterinary use

Shipping Conditions Important

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

188.19

HN NH NH

Molecular Formula CAS Number SMILES InChi C₈H₈N₆ 1229028-63-0

C1C2CC3=C(NN=C3C3=NN=NN3)C12

InChl=1/C8H8N6/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)(H,11,12,13,14)

References

Structure-guided design of a peripherally restricted chemogenetic system.

Kang HJ et al (2024) Cell

PubMedID 39631393