

Product Data Sheet

Product Name: CHDI-390576

Cat. No.: GC64942

Chemical Properties

Cas. No. 1629729-98-1

Formula C₁₉H₁₃F₄N₃O₂

M.Wt 391.32

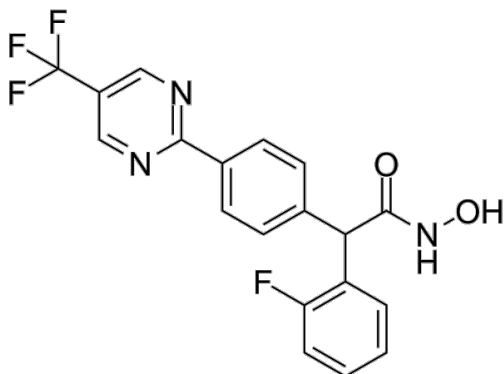
Solubility DMSO : 250 mg/mL (638.86 mM;
Need ultrasonic)

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



Protocol

HDAC4 HDAC5 HDAC7 hHDAC9 HDAC1 HDAC3 HDAC8 hHDAC6

54nM(IC₅₀) 60nM(IC₅₀) 31nM(IC₅₀) 50nM(IC₅₀) 39.7μM(IC₅₀) 25.8μM(IC₅₀) 9.1μM(IC₅₀) 6.2μM(IC₅₀)

Background

CHDI-390576, a potent, cell permeable and CNS penetrant class IIa histone deacetylase (HDAC)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

inhibitor with IC₅₀s of 54 nM, 60 nM, 31 nM, 50 nM for class IIa HDAC4, HDAC5, HDAC7, HDAC9, respectively, shows >500-fold selectivity over class I HDACs (1, 2, 3) and ~150-fold selectivity over HDAC8 and the class IIb HDAC6 isoform[1].

The affinity (K_d) of CHDI-390576 to the catalytic domain of immobilized HDAC4 is 80 nM[1]. CHDI-390576 inhibits class I HDACs (1, 3, 8) and class IIb HDAC6 isoforms with IC₅₀s of 39.7 μM, 25.8 μM, 9.1 μM, 6.2 μM, respectively[1].

[1]. Luckhurst CA, et al. Development and characterization of a CNS-penetrant benzhydryl hydroxamic acid class IIa histone deacetylase inhibitor. *Bioorg Med Chem Lett*. 2019 Jan 1;29(1):83-88.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA