

Product Data Sheet

Product Name: HDAC3 Inhibitor

Cat. No.: GC41495

Chemical Properties

Cas. No. 2044701-99-5

SMILES O=C(NCC1=CC=C(C(NNCCC)=O)C=C1)/C=C/C2=CC=CC=C2

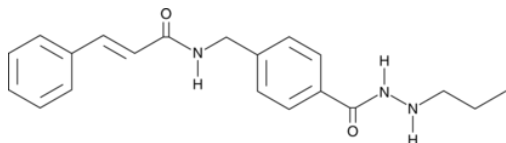
Formula C₂₀H₂₃N₃O₂ M.Wt 337.4

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: 30 mg/ml
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

HDAC3 inhibitor is an allosteric inhibitor of histone deacetylase 3 (HDAC3; $K_i = 0.16$ nM). It is selective for HDAC3 over HDAC1 and HDAC2 (IC_{50} s = 0.95, 11.81, and 95.45 nM, respectively, using recombinant HDACs). In addition, it is selective for acute myeloid, monocytic, and lymphoblastic leukemia cell lines (EC_{50} s = 36.37, 76.64, and 151.7 nM, respectively) over chronic myeloid, acute promyelocytic, and acute lymphoblastic cells (EC_{50} s = 2,160, >10,000, and >10,000 nM, respectively).

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

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