

BRD4884

Chemical Properties

CAS No. : 1404559-91-6

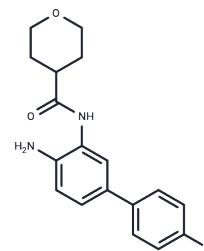
Formula: C₁₈H₁₉N₂O₂

Molecular Weight: 314.35

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | BRD4884 is a highly selective and efficient HDAC1 and HDAC2 inhibitor that also inhibits HDAC3, used in research on neurological disorders. |
| Targets(IC50) | HDAC |
| In vitro | BRD4884 is a potent HDAC inhibitor with IC ₅₀ values of 29 nM, 62 nM, and 1.09 μM for HDAC1, 2, and 3, respectively. BRD4884 (10 μM for 24 hours) increased acetylation of histone H4K12 and H3K9 in mouse forebrain primary neuron cultures. [1] |
| In vivo | BRD4884 has a half-life of 0.9 hours in mice and has good brain permeability. BRD4884 (10 and 1 mg/kg, intraperitoneal injection) salvaged memory deficits associated with P25-induced neurodegeneration in situational fear conditioning. [1] |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 20 mg/mL (63.62 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.1812 mL | 15.9058 mL | 31.8117 mL |
| 5 mM | 0.6362 mL | 3.1812 mL | 6.3623 mL |
| 10 mM | 0.3181 mL | 1.5906 mL | 3.1812 mL |
| 50 mM | 0.0636 mL | 0.3181 mL | 0.6362 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wagner FF, et al. Kinetically Selective Inhibitors of Histone Deacetylase 2 (HDAC2) as Cognition Enhancers. Chem Sci. 2015 Jan 1;6(1):804-815.

Wagner FF, et al. Kinetic and structural insights into the binding of histone deacetylase 1 and 2 (HDAC1, 2) inhibitors. Bioorg Med Chem. 2016 Sep 15;24(18):4008-4015.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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