

Product Data Sheet

Product Name: HDAC6-IN-85

Cat. No.: GC79051

Chemical Properties

Cas. No. 948837-73-8

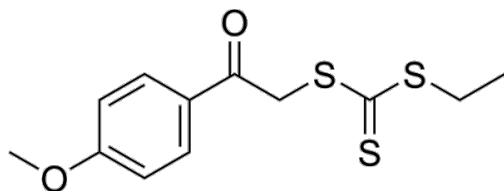
Formula $C_{12}H_{14}O_2S_3$ M.Wt 286.43

Solubility DMSO: 100 mg/mL (349.13 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



Background

HDAC6-IN-85 is a selective HDAC6 inhibitor, with pIC 50 values of 5.4, 5.5, 5.9, and 4.8 against

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

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rHDAC1, rHDAC3, rHDAC6, and rHDAC8, respectively. HDAC6-IN-85 can be used in the research of cervical cancer, lung cancer, and colon cancer ^[1].

In Vitro, HDAC6-IN-85 (Compound 7) potently inhibits the HDAC isozyme mixture in HeLa nuclear extracts, with a pIC₅₀ of 6.3^[1]. HDAC6-IN-85 inhibits the proliferation of HeLa cervical cancer cells with a pIC₅₀ value of 5.6^[1]. HDAC6-IN-85 inhibits recombinant HDAC isozymes, with the highest inhibitory potency against rHDAC6 (pIC₅₀ = 5.9) and the lowest inhibitory potency against rHDAC8 (pIC₅₀ = 4.8)^[1]. HDAC6-IN-85 inhibits the proliferation of A549 lung cancer cells and RKO colon cancer cells, with a pIC₅₀ value of 5.2 for the former and 5.7 for the latter^[1].

References:

[1]. Dehmel F, et al. Trithiocarbonates: exploration of a new head group for HDAC inhibitors. Bioorganic & medicinal chemistry letters. 2007 Sep 01;17(17):4746-52.

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