

Product Data Sheet

Product Name: 1-Naphthohydroxamic acid

Cat. No.: GC39214

Chemical Properties

Cas. No. 6953-61-3

SMILES O=C(C1=CC=CC=CC2=CC=CC=C12)NO

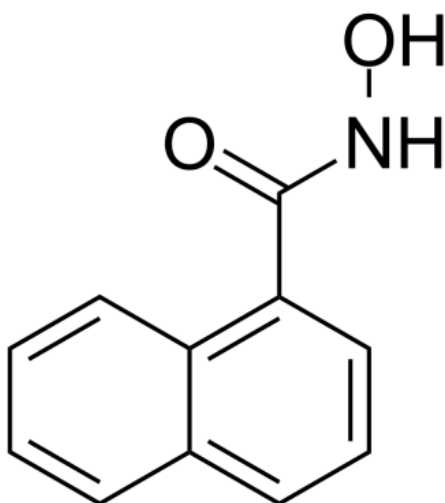
Formula $C_{11}H_9NO_2$ M.Wt 187.19

Solubility DMSO: 125 mg/mL (667.77 mM) 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

1-Naphthohydroxamic acid (Compound 2) is a potent and selective HDAC8 inhibitor with an IC₅₀ of 14 μM. 1-Naphthohydroxamic acid is more selective for HDAC8 than class I HDAC1 and class II HDAC6 (IC₅₀ >100 μM). 1-Naphthohydroxamic acid does not increase global histone H4 acetylation and also does not reduce total intracellular HDAC activity[1][2]. 1-Naphthohydroxamic acid can induce tubulin acetylation[3].

[1]. Krennhrubec K, et al. Design and evaluation of 'Linkerless' hydroxamic acids as selective HDAC8

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

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inhibitors. Bioorg Med Chem Lett. 2007 May 15;17(10):2874-8. [2]. Oehme I, et al. Histone deacetylase 8 in neuroblastoma tumorigenesis. Clin Cancer Res. 2009 Jan 1;15(1):91-9.

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