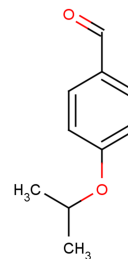


ALDH1A3-IN-3

Chemical Properties

CAS No. :	18962-05-5
Formula:	C ₁₀ H ₁₂ O ₂
Molecular Weight:	164.2
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	ALDH1A3-IN-3 (compound 16), a powerful ALDH1A3 inhibitor with an IC ₅₀ of 0.26 μM, serves as an effective ALDH3A1 substrate. It is utilized in prostate cancer research.
Targets(IC ₅₀)	Dehydrogenase
In vitro	ALDH1A3-IN-3 showed weak antiproliferative Effect against PC3, LNCaP, and DU145 PCA Cell Lines with IC ₅₀ >200μM[1].

Solubility Information

Solubility	DMSO: 90mg/mL (548.1mM),sonification is recommended. < 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0901 mL	30.4507 mL	60.9013 mL
5 mM	1.218 mL	6.0901 mL	12.1803 mL
10 mM	0.609 mL	3.0451 mL	6.0901 mL
50 mM	0.1218 mL	0.609 mL	1.218 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.

Reference

Ibrahim AIM, et, al. Expansion of the 4-(Diethylamino)benzaldehyde Scaffold to Explore the Impact on Aldehyde Dehydrogenase Activity and Antiproliferative Activity in Prostate Cancer. J Med Chem. 2022 Mar 10;65(5):3833-

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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