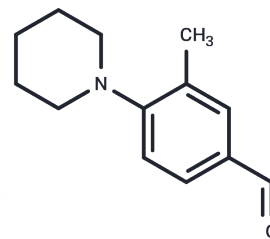


## ALDH1A3-IN-2

## Chemical Properties

CAS No. :	886502-08-5
Formula:	C <sub>13</sub> H <sub>17</sub> NO
Molecular Weight:	203.28
Storage:	Pure form: -20°C for 3 years   In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	ALDH1A3-IN-2 is a potent ALDH1A3 inhibitor with an IC <sub>50</sub> of 0.30 μM. ALDH1A3-IN-2 has potential for cancer disease research.
Targets(IC <sub>50</sub> )	Dehydrogenase

## Solubility Information

Solubility	DMSO: 60 mg/mL (295.16 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.84 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9193 mL	24.5966 mL	49.1932 mL
5 mM	0.9839 mL	4.9193 mL	9.8386 mL
10 mM	0.4919 mL	2.4597 mL	4.9193 mL
50 mM	0.0984 mL	0.4919 mL	0.9839 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

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;65(5):3833-3848.

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