

ALDH1A2-IN-1

Chemical Properties

CAS No. : 2204229-64-9

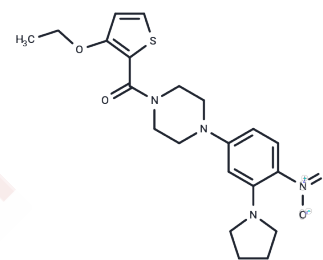
Formula: C₂₁H₂₆N₄O₄S

Molecular Weight: 430.52

Storage: Keep away from direct sunlight, Keep away from moisture

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	ALDH1A2-IN-1 is an active-site directed, reversible ALDH1A2 inhibitor that prevents spermatogenesis and can be used in male contraceptive research.
Targets(IC50)	Dehydrogenase
In vitro	ALDH1A2-IN-1 (Compound 6-118) is a reversible ALDH1A2 inhibitor targeting the active site with an IC ₅₀ of 0.91 μM and a K _d of 0.26 μM. [1]

Solubility Information

Solubility	DMSO: 20 mg/mL (46.46 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: 1 mg/mL (2.32 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	2.3228 mL	11.6139 mL	23.2277 mL
5 mM	0.4646 mL	2.3228 mL	4.6455 mL
10 mM	0.2323 mL	1.1614 mL	2.3228 mL
50 mM	0.0465 mL	0.2323 mL	0.4646 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

Chen Y, et al. Structural Basis of ALDH1A2 Inhibition by Irreversible and Reversible Small Molecule Inhibitors. ACS Chem Biol. 2018;13(3):582-590.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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