

FASN-IN-1

## Chemical Properties

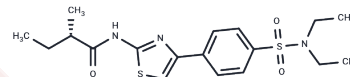
CAS No. : 1808260-84-5

Formula: C<sub>18</sub>H<sub>25</sub>N<sub>3</sub>O<sub>3</sub>S<sub>2</sub>

Molecular Weight: 395.54

Storage: 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	FASN-in-1 is an effective, specific inhibitor of fatty acid synthase (FASN), a compound specifically designed to target and inhibit the activity of the enzyme involved in fatty acid synthesis, potentially disrupting fatty acid production and affecting various cellular processes.
Targets(IC50)	Fatty Acid Synthase

## Solubility Information

Solubility	DMSO: 250 mg/mL (632.05 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: 10 mg/mL (25.28 mM), Suspension. 10% DMSO+90% Saline: < 10 mg/mL (25.28 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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

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	1mg	5mg	10mg
1 mM	2.5282 mL	12.6409 mL	25.2819 mL
5 mM	0.5056 mL	2.5282 mL	5.0564 mL
10 mM	0.2528 mL	1.2641 mL	2.5282 mL
50 mM	0.0506 mL	0.2528 mL	0.5056 mL

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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

Nicholas D.P. Cosford, et al. Small molecule fatty acid synthase inhibitors. WO2015134790A1.

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