

ACSS2-IN-2

Chemical Properties

CAS No. : 2332820-04-7

Formula: C₂₁H₁₉F₂N₃O₄

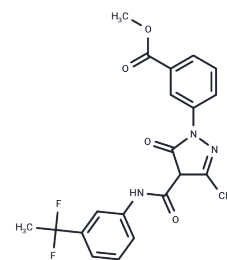
Molecular Weight: 415.39

Store at low temperature, Keep away from direct sunlight

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	ACSS2-IN-2 (MTB-9655) is an inhibitor of acyl-CoA synthetase short-chain family member 2 (ACSS2). ACSS2-IN-2 can inhibit ACSS2 activity with an IC ₅₀ value of 3.8 nM. ACSS2-IN-2 can be used for the research of several diseases, such as viral infection, metabolic disorders, neuropsychiatric diseases, inflammatory/autoimmune conditions and cancer.
Targets(IC ₅₀)	Others, Fatty Acid Synthase
In vitro	ACSS2-IN-2 (Compound 261) (5 h) exhibits ACSS2 inhibitory activity with an IC ₅₀ of 3.8 nM in MDA-MB-468 cells. ¹

Solubility Information

Solubility	DMSO: 150 mg/mL (361.11 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (24.07 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (24.07 mM), Solution. <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	2.4074 mL	12.0369 mL	24.0738 mL
5 mM	0.4815 mL	2.4074 mL	4.8148 mL
10 mM	0.2407 mL	1.2037 mL	2.4074 mL
50 mM	0.0481 mL	0.2407 mL	0.4815 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

Philippe Nakache, et al. Acss2 inhibitors and methods of use thereof. Patent. WO2019097515A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481