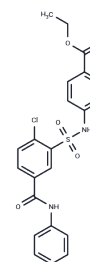


SABA1

Chemical Properties

CAS No. :	690681-65-3
Formula:	C ₂₂ H ₁₉ ClN ₂ O ₅ S
Molecular Weight:	458.92
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	SABA1 exhibits antibacterial activity, inhibiting <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i> , and suppresses biotin carboxylase, making it useful for studying biological resistance.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 80 mg/mL (174.32 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: 3.3 mg/mL (7.19 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	2.179 mL	10.8951 mL	21.7903 mL
5 mM	0.4358 mL	2.179 mL	4.3581 mL
10 mM	0.2179 mL	1.0895 mL	2.179 mL
50 mM	0.0436 mL	0.2179 mL	0.4358 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

Matthew K Craft, et al. Mechanism of biotin carboxylase inhibition by ethyl 4-[[2-chloro-5-(phenylcarbamoyl) phenyl]sulphonylamino]benzoate. J Enzyme Inhib Med Chem. 2022 Dec;37(1):100-108.

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