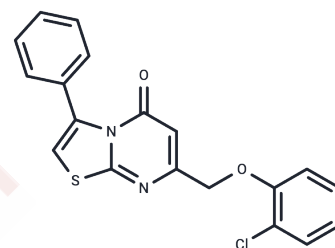


SLC26A3-IN-2

Chemical Properties

CAS No. : 950348-60-4
 Formula: C₁₉H₁₃ClN₂O₂S
 Molecular Weight: 368.84
 Storage: Store at low temperature
 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	SLC26A3-IN-2 is an orally available and highly potent inhibitor of the anion-exchange protein SLC26A3 for the study of constipation. dCMP disodium (2'2'') is a potent inhibitor of the anion-exchange protein SLC26A3.
Targets(IC50)	Sodium Channel,transporter
In vitro	SLC26A3-IN-2 is an orally active inhibitor of the anion-exchange protein SLC26A3 with an IC ₅₀ of 360 nM. 92% inhibition of SLC26A3 was achieved when SLC26A3-IN-2 was treated for 10 min at a concentration of 10 μM. [1]
In vivo	Oral administration of 10 mg/kg SLC26A3-IN-2 significantly increased the weight of feces and the number of particles in a loperamide-induced constipation model in mice, showing its effect in increasing fecal hydration capacity in mice. [1]

Solubility Information

Solubility	DMSO: 10 mg/mL (27.11 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7112 mL	13.556 mL	27.112 mL
5 mM	0.5422 mL	2.7112 mL	5.4224 mL
10 mM	0.2711 mL	1.3556 mL	2.7112 mL
50 mM	0.0542 mL	0.2711 mL	0.5422 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

Cil O, et al. Small molecule inhibitors of intestinal epithelial anion exchanger SLC26A3 (DRA) with a luminal, extracellular site of action. Eur J Med Chem. 2023 Mar 5;249:115149.

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