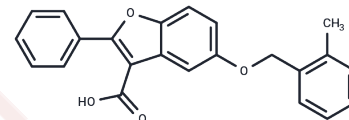


SLC26A3-IN-1

## Chemical Properties

CAS No. : 307552-53-0  
 Formula: C<sub>23</sub>H<sub>18</sub>O<sub>4</sub>  
 Molecular Weight: 358.39  
 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	SLC26A3-IN-1 is an inhibitor of the anion-exchange protein SLC26A3 with an IC <sub>50</sub> value of 340 nM. SLC26A3, a solute carrier (SLC) protein and member of the SLC26 family, exhibits a wide range of anionic specificities for chloride, bicarbonate, sulfate, and oxalate. Downregulated in adenomas (DRA), SLC26A3 is involved in intestinal absorption of chloride and oxalate and is associated with chloride-losing diarrhea.
Targets(IC <sub>50</sub> )	transporter
In vitro	SLC26A3-IN-1 (Compound 4a) (10 μM; 10 min) inhibitory rate on SLC26A3 is 87%. [1]

## Solubility Information

Solubility	DMSO: 50 mg/mL (139.51 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	2.7903 mL	13.9513 mL	27.9026 mL
5 mM	0.5581 mL	2.7903 mL	5.5805 mL
10 mM	0.279 mL	1.3951 mL	2.7903 mL
50 mM	0.0558 mL	0.279 mL	0.5581 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;249:115149.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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