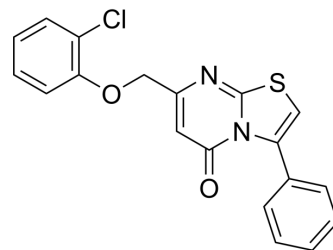


SLC26A3-IN-2

Cat. No.:	HY-149276	
CAS No.:	950348-60-4	
Molecular Formula:	C ₁₉ H ₁₃ ClN ₂ O ₂ S	
Molecular Weight:	368.84	
Target:	GLUT	
Pathway:	Membrane Transporter/Ion Channel	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (45.20 mM); ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7112 mL	13.5560 mL	27.1120 mL
	5 mM	0.5422 mL	2.7112 mL	5.4224 mL
	10 mM	0.2711 mL	1.3556 mL	2.7112 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

SLC26A3-IN-2 is an orally active inhibitor of anion exchanger protein SLC26A3 (IC₅₀=360 nM). SLC26A3 belongs to solute carrier (SLC) proteins, and the SLC26 family. SLC26 family has broad anion specificity for chloride, bicarbonate, sulfate and oxalate. SLC26A3 down-regulates in adenoma, DRA, involves in intestinal absorption of chloride and oxalate. The loss of SLC26A3 function mutations is associated with chloride-losing diarrhea^[1].

In Vitro

SLC26A3-IN-2 (compound 3a) (10 μM; 10 min) produces 92% inhibition rate against SLC26A3^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

SLC26A3-IN-2 (10 mg/kg; po) significantly increases stool weight and number of pellets in a Loperamide (HY-B0418A)-induced model of constipation in mice, demonstrating its efficacy in increasing stool hydration in mice^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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