

TRPM7-IN-1

Chemical Properties

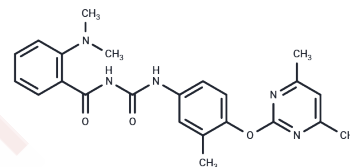
CAS No. : 1909225-07-5

Formula: C₂₃H₂₅N₅O₃

Molecular Weight: 419.48

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	TRPM7-IN-1 (compound SUD) is a benzamide-urea derivative and an effective inhibitor of TRPM7. This compound induces cell cycle arrest and apoptosis in MCF-7 and BGC-823 cells, reducing their migration capabilities. It decreases vimentin expression while increasing E-cadherin expression. TRPM7-IN-1 reduces TRPM7-like currents and inhibits TRPM7 expression by activating the PI3K/Akt signaling pathway. This compound shows potential as a therapeutic agent for reducing breast and gastric cancer metastasis by targeting TRPM7 expression and activity.
Targets(IC50)	Apoptosis,Akt,Antibacterial,PI3K

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3839 mL	11.9195 mL	23.839 mL
5 mM	0.4768 mL	2.3839 mL	4.7678 mL
10 mM	0.2384 mL	1.192 mL	2.3839 mL
50 mM	0.0477 mL	0.2384 mL	0.4768 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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