

S0859

## Chemical Properties

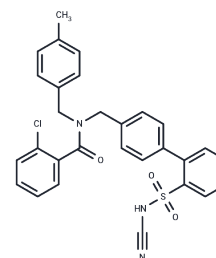
CAS No. : 1019331-10-2

Formula: C<sub>29</sub>H<sub>24</sub>ClN<sub>3</sub>O<sub>3</sub>S

Molecular Weight: 530.04

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

**Description** S0859 is an N-cyanosulphonamide that blocks the sodium/bicarbonate cotransporter (NBC, also known as SLC4A7), which regulates intracellular pH.

**Targets(IC50)** Others,Sodium Channel

## Solubility Information

**Solubility** DMSO: 250 mg/mL (471.66 mM),Sonication is recommended.  
(< 1 mg/ml refers to the product slightly soluble or insoluble)

**In vivo Formulation** 10% DMSO+90% Saline: 10 mg/mL (18.87 mM),Solution.  
*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.*

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8867 mL	9.4333 mL	18.8665 mL
5 mM	0.3773 mL	1.8867 mL	3.7733 mL
10 mM	0.1887 mL	0.9433 mL	1.8867 mL
50 mM	0.0377 mL	0.1887 mL	0.3773 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

Larsen AM, et al. ChemMedChem. 2012 Oct;7(10):1808-14.

He J, Wu J, Tan J, et al. Role of declined electrogenic Na<sup>+</sup>/HCO<sub>3</sub><sup>-</sup>-cotransporter NBCe1 in mucus barrier impairment and colonic inflammation. International Immunopharmacology. 2025, 150: 114282.

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