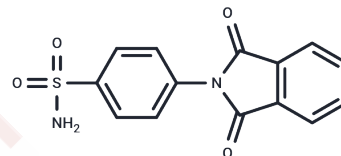


## Carbonic anhydrase inhibitor 16

## Chemical Properties

CAS No. :	4479-70-3
Formula:	C <sub>14</sub> H <sub>10</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	302.31
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Carbonic anhydrase inhibitor 16 (compound 1) is a potent and selective carbonic anhydrase (CA I/CA II) inhibitor, with potential antiviral activity, used in viral infection research.
Targets(IC50)	Carbonic Anhydrase

## Solubility Information

Solubility	DMSO: 80 mg/mL (264.63 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	3.3079 mL	16.5393 mL	33.0786 mL
5 mM	0.6616 mL	3.3079 mL	6.6157 mL
10 mM	0.3308 mL	1.6539 mL	3.3079 mL
50 mM	0.0662 mL	0.3308 mL	0.6616 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

Shilkar D, et al. Carbonic anhydrase inhibitory activity of phthalimide-capped benzene sulphonamide derivatives. J Enzyme Inhib Med Chem. 2023 Dec;38(1):2235089.

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