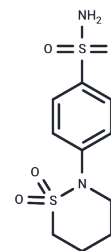


## Sultiame

## Chemical Properties

CAS No. :	61-56-3
Formula:	C10H14N2O4S2
Molecular Weight:	290.36
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	Sultiame is an inhibitor of carbonic anhydrase. Sultiame can be used in antiepileptic research.
Targets(IC50)	Carbonic Anhydrase
In vitro	Sultiame promotes a modest intracellular acidosis in central neurons via acting as a carbonic anhydrase inhibitor, thereby reducing the frequency of action potentials and epileptiform bursts[1].

## Solubility Information

Solubility	DMSO: 150 mg/mL (516.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.44 mM),Sonication is recommended. <i>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.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.444 mL	17.220 mL	34.440 mL
5 mM	0.6888 mL	3.444 mL	6.888 mL
10 mM	0.3444 mL	1.722 mL	3.444 mL
50 mM	0.0689 mL	0.3444 mL	0.6888 mL

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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

Milburn-McNulty P, et al. Sulthiame add-on therapy for epilepsy. Cochrane Database Syst Rev. 2015 Oct 28;(10): CD009472.

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