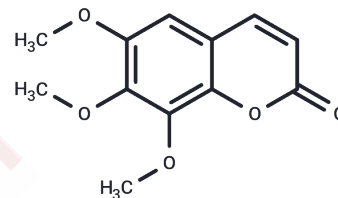


## Dimethylfraxetin

## Chemical Properties

CAS No. :	6035-49-0
Formula:	C <sub>12</sub> H <sub>12</sub> O <sub>5</sub>
Molecular Weight:	236.22
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	Dimethylfraxetin (6,7,8-Trimethoxycoumarin) is a Carbonic anhydrase inhibitor (K <sub>i</sub> : 0.0097 μM)
Targets(IC50)	Carbonic Anhydrase

## Solubility Information

Solubility	DMSO: 125 mg/mL (529.17 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: 4 mg/mL (16.93 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

	1mg	5mg	10mg
1 mM	4.2333 mL	21.1667 mL	42.3334 mL
5 mM	0.8467 mL	4.2333 mL	8.4667 mL
10 mM	0.4233 mL	2.1167 mL	4.2333 mL
50 mM	0.0847 mL	0.4233 mL	0.8467 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

Davis R A , Vullo D , Maresca A , et al. Natural product coumarins that inhibit human carbonic anhydrases[J]. Bioorganic & medicinal chemistry, 2012, 21(6):1539-1543.

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