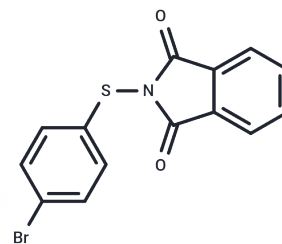


hCAI/II-IN-7

Chemical Properties

CAS No. :	14204-32-1
Formula:	C ₁₄ H ₈ BrNO ₂ S
Molecular Weight:	334.19
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	hCAI/II-IN-7 (compound 1F) is an effective carbonic anhydrase (CA) inhibitor with Ki values of 23 nM, 44 nM, and 21 μM for hCA-I, hCA-II, and bCA respectively.
Targets(IC50)	Carbonic Anhydrase

Solubility Information

Solubility	DMSO: 20 mg/mL (59.85 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.98 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	2.9923 mL	14.9615 mL	29.9231 mL
5 mM	0.5985 mL	2.9923 mL	5.9846 mL
10 mM	0.2992 mL	1.4962 mL	2.9923 mL
50 mM	0.0598 mL	0.2992 mL	0.5985 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

Hasan Yakan, et al. Inhibitory effects of sulfenimides on human and bovine carbonic anhydrase enzymes. J Enzyme Inhib Med Chem. 2023 Dec;38(1):2194573.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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