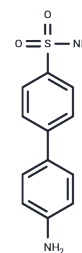


hCAI/II/XII-IN-1

## Chemical Properties

CAS No. : 100142-87-8  
 Formula: C<sub>12</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>S  
 Molecular Weight: 248.30  
 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	hCAII/XII/XIV-IN-1 is an effective inhibitor of the human carbonic anhydrases hCAII, hCAXII and hCAXIV, with K <sub>i</sub> values of 78.5 nM, 9.1 nM, 605 nM, 7.7 nM, and 3.7 nM for hCAI, hCAII, hCAIX, hCAXII, and hCAXIV, respectively.
Targets(IC50)	Carbonic Anhydrase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0274 mL	20.1369 mL	40.2739 mL
5 mM	0.8055 mL	4.0274 mL	8.0548 mL
10 mM	0.4027 mL	2.0137 mL	4.0274 mL
50 mM	0.0805 mL	0.4027 mL	0.8055 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

Giuseppe La Regina, et al. Discovery of 1,1'-Biphenyl-4-sulfonamides as a New Class of Potent and Selective Carbonic Anhydrase XIV Inhibitors. J Med Chem. 2015 Nov 12;58(21):8564-72.

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