

CAII-IN-1

Chemical Properties

CAS No. :

Formula: C19H21FN4S

Molecular Weight: 356.46

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 | CAII-IN-1 (compound 3n) is a thiosemicarbazide derivative that acts as a potent and selective inhibitor of carbonic anhydrase-II (CA-II), with an IC50 value of 10.3 μ M for bovine CA-II. This compound (CAII-IN-1) is useful in research on carbonic anhydrase-associated biological disorders [1]. |
| Targets(IC50) | Others,Carbonic Anhydrase |
| In vitro | Compound 3n (CAII-IN-1) specifically inhibits carbonic anhydrase-II (CA-II) through mediation of ionic interaction with the zinc (Zn) ion located in the enzyme's active site [1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.8054 mL | 14.0268 mL | 28.0536 mL |
| 5 mM | 0.5611 mL | 2.8054 mL | 5.6107 mL |
| 10 mM | 0.2805 mL | 1.4027 mL | 2.8054 mL |
| 50 mM | 0.0561 mL | 0.2805 mL | 0.5611 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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