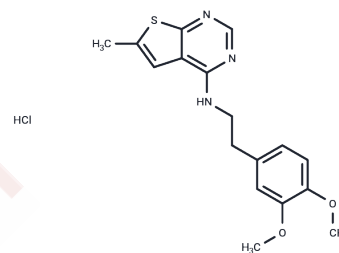


CIA-1 hcl(452087-38-6 Free base)

## Chemical Properties

CAS No. : 1049691-47-5  
 Formula: C17H20ClN3O2S  
 Molecular Weight: 365.88  
 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	CIA-1 inhibits the nuclear receptor COUP-TFII, with IC50s ranging from 1.2 $\mu$ M to 7.6 $\mu$ M in prostate cancer cell lines. CIA-1 inhibits the growth of a variety of prostate cancer cell lines in vitro and inhibits COUP-TFII activity to regulate its target genes. CIA-1 in vivo exhibits tumor growth inhibitory effects in a mouse model of prostate cancer xenografts. inhibitory effect on tumor growth in a xenograft mouse model of prostate cancer in vivo.
Targets(IC50)	Others, Gamma-secretase, Orphan Receptor

## Solubility Information

Solubility DMSO: 6.6 mg/mL (18.04 mM), Sonication is recommended.  
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7331 mL	13.6657 mL	27.3314 mL
5 mM	0.5466 mL	2.7331 mL	5.4663 mL
10 mM	0.2733 mL	1.3666 mL	2.7331 mL
50 mM	0.0547 mL	0.2733 mL	0.5466 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

Renshaw RW, et al. A hypervariable region in VP1 of chicken infectious anemia virus mediates rate of spread and cell tropism in tissue culture. *J Virol.* 1996;70(12):8872-8878.

Matsumoto T, et al. Characterization of CIA-1, an Ambler class A extended-spectrum  $\beta$ -lactamase from *Chryseobacterium indologenes*. *Antimicrob Agents Chemother.* 2012;56(1):588-590.

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