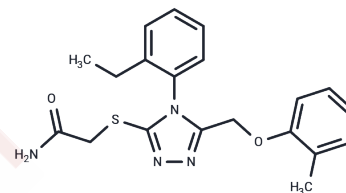


A2ti-1

Chemical Properties

CAS No. :	570390-00-0
Formula:	C ₂₀ H ₂₂ N ₄ O ₂ S
Molecular Weight:	382.48
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	A2ti-1 is a highly selective inhibitor of annexin A2/S100A10 heterotetramer (A2t) (IC ₅₀ : 24 μM) that inhibits ARV-mediated activation of Src and p38 mitogen-activated protein kinase (MAPK). A2ti-1 can be used to study human papillomavirus type 16 (HPV16) infection.
Targets(IC ₅₀)	Annexin A, Virus Protease
In vitro	The high-affinity A2ti-1 (100 μM; 72 h) reduces HPV16 PsV infection in HeLa cells in a dose-dependent manner[2].

Solubility Information

Solubility	DMSO: 80 mg/mL (209.16 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: 3.3 mg/mL (8.63 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	2.6145 mL	13.0726 mL	26.1452 mL
5 mM	0.5229 mL	2.6145 mL	5.229 mL
10 mM	0.2615 mL	1.3073 mL	2.6145 mL
50 mM	0.0523 mL	0.2615 mL	0.5229 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

Tummala R K Reddy, et al. Three-dimensional Pharmacophore Design and Biochemical Screening Identifies Substituted 1,2,4-triazoles as Inhibitors of the Annexin A2-S100A10 Protein Interaction. *ChemMedChem*. 2012 Aug; 7(8):1435-46.

Andrew W Woodham, et al. Small Molecule Inhibitors of the Annexin A2 Heterotetramer Prevent Human Papillomavirus Type 16 Infection. *J Antimicrob Chemother*. 2015;70(6):1686-90.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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