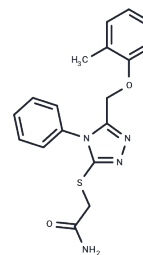


A2ti-2

## Chemical Properties

CAS No. : 482646-13-9  
 Formula: C<sub>18</sub>H<sub>18</sub>N<sub>4</sub>O<sub>2</sub>S  
 Molecular Weight: 354.43  
 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-2 is a low affinity and selective inhibitor of the membrane-bound protein A2/S100A10 heterotetramer (A2t) (IC <sub>50</sub> : 230 μM). A2ti-2 exhibits antiviral activity by selectively disrupting protein interactions between A2 and S100A10, and protects against human papillomavirus type 16 (HPV16) infection.
Targets(IC <sub>50</sub> )	Antiviral,Annexin A,Virus Protease
In vitro	A2ti-2 (compound 7a) functions as a blocker of the protein-protein interaction between annexin A2 and S100A10.[1] A2ti-2 reduction HPV16 PsV infection with <50% achieved at 100 μM. A2ti-1 decreases HPV16 entry with a 20% reduction at 100 μM.[2]

## Solubility Information

Solubility	DMSO: 250 mg/mL (705.36 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: 5 mg/mL (14.11 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

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	1mg	5mg	10mg
1 mM	2.8214 mL	14.1072 mL	28.2143 mL
5 mM	0.5643 mL	2.8214 mL	5.6429 mL
10 mM	0.2821 mL	1.4107 mL	2.8214 mL
50 mM	0.0564 mL	0.2821 mL	0.5643 mL

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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.

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