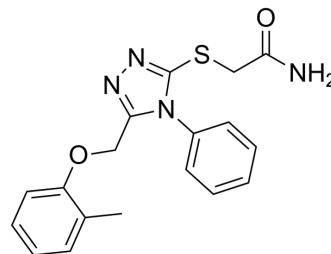


A2ti-2

Cat. No.:	HY-136466		
CAS No.:	482646-13-9		
Molecular Formula:	C ₁₈ H ₁₈ N ₄ O ₂ S		
Molecular Weight:	354.43		
Target:	Virus Protease; HPV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (705.36 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
	Preparing Stock Solutions	1 mM	2.8214 mL	14.1072 mL
	5 mM	0.5643 mL	2.8214 mL	5.6429 mL
	10 mM	0.2821 mL	1.4107 mL	2.8214 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.87 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.87 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.87 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	A2ti-2 is a selective and low-affinity annexin A2/S100A10 heterotetramer (A2t) inhibitor with an IC ₅₀ of 230 μM ^[1] . A2ti-2 specifically disrupts the protein-protein interaction (PPI) between A2 and S100A10. A2ti-2 prevents human papillomavirus type 16 (HPV16) infection ^[2] .
IC ₅₀ & Target	IC50: 230 μM (A2t) ^[1]
In Vitro	A2ti-2 (compound 7a) is an annexin A2-S100A10 protein-protein interaction blocker ^[1] .

A2ti-2 is less effective with <50% reduction in HPV16 PsV infection achieved at 100 μ M. A2ti-1 decreases HPV16 entry with a 20% reduction at 100 μ M^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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