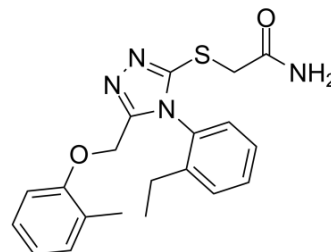


A2ti-1

Cat. No.:	HY-136465
CAS No.:	570390-00-0
Molecular Formula:	C ₂₀ H ₂₂ N ₄ O ₂ S
Molecular Weight:	382.48
Target:	Virus Protease
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	A2ti-1 is a selective and high-affinity annexin A2/S100A10 heterotetramer (A2t) inhibitor with an IC ₅₀ of 24 μM ^[1] . A2ti-1 specifically disrupts the protein-protein interaction (PPI) between A2 and S100A10. A2ti-1 prevents human papillomavirus type 16 (HPV16) infection ^[2] .								
IC₅₀ & Target	IC50: 24 μM (A2t) ^[1]								
In Vitro	<p>A2ti-1 (compound 1 b) is an annexin A2-S100A10 protein-protein interaction blocker^[1]. A2ti-1 (100 μM; for 72 hours) reduces HPV16 PsV infection of HeLa cells in a dose-dependent manner^[2]. A2ti-1 (10, 25, 50, 75, 100 μM; 24 hours) significantly reduces CFDA-SE-labelled HPV16 PsV entry into HeLa cells in a dose-dependent manner^[2].</p> <p>Cell Viability Assay^[2]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HeLa cells</td> </tr> <tr> <td>Concentration:</td> <td>100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>For 72 hours</td> </tr> <tr> <td>Result:</td> <td>Reduced HPV16 PsV infection of HeLa cells in a dose-dependent manner with 100% inhibition of infection observed at 100 μM and similar results were observed in HaCaT cells.</td> </tr> </table>	Cell Line:	HeLa cells	Concentration:	100 μM	Incubation Time:	For 72 hours	Result:	Reduced HPV16 PsV infection of HeLa cells in a dose-dependent manner with 100% inhibition of infection observed at 100 μM and similar results were observed in HaCaT cells.
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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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