

Product Data Sheet

Product Name: A2ti-1
Cat. No.: GC60546

Chemical Properties

Cas. No. 570390-00-0

SMILES O=C(N)CSC1=NN=C(COC2=CC=CC=C2C)N1C3=CC=CC=C3CC

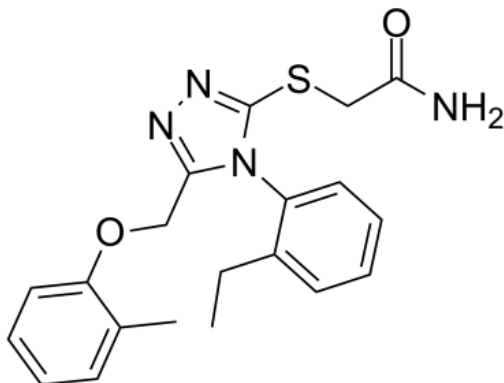
Formula C20H22N4O2S M.Wt 382.48

Solubility DMSO: 250 mg/mL (653.63 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



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

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Background

A2ti-1 is a selective and high-affinity annexin A2/S100A10 heterotetramer (A2t) inhibitor with an IC₅₀ of 24 μ M[1]. A2ti-1 specifically disrupts the protein-protein interaction (PPI) between A2 and S100A10. A2ti-1 prevents human papillomavirus type 16 (HPV16) infection[2].

A2ti-1 (compound 1 b) is an annexin A2-S100A10 protein-protein interaction blocker[1]. A2ti-1 (100 μ M; for 72 hours) reduces HPV16 PsV infection of HeLa cells in a dose-dependent manner[2]. A2ti-1 (10, 25, 50, 75, 100 μ M; 24 hours) significantly reduces CFDA-SE-labelled HPV16 PsV entry into HeLa cells in a dose-dependent manner[2]. Cell Viability Assay[2] Cell Line: HeLa cells

[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.

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