

AZ3976

Chemical Properties

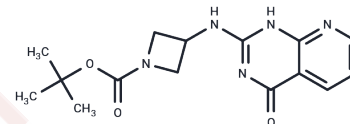
CAS No. : 1418747-15-5

Formula: C₁₅H₁₉N₅O₃

Molecular Weight: 317.34

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	AZ3976 is an inhibitor of PAI-1 with an IC ₅₀ of 16 μM in a plasma clot lysis assay. AZ3976 displays profibrinolytic activities.
Targets(IC ₅₀)	PAI-1
In vitro	AZ3976 is active with an IC ₅₀ value of 26 μM in an enzymatic chromogenic assay. AZ3976 enhances the latency transition of active PAI-1 and inhibits PAI-1[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (141.8 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: 2 mg/mL (6.3 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	3.1512 mL	15.756 mL	31.5119 mL
5 mM	0.6302 mL	3.1512 mL	6.3024 mL
10 mM	0.3151 mL	1.5756 mL	3.1512 mL
50 mM	0.063 mL	0.3151 mL	0.6302 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

Cazzolli G, et al. Serpin latency transition at atomic resolution. Proc Natl Acad Sci U S A. 2014 Oct 28;111(43):15414-9.

Fjellström O, et al. Characterization of a small molecule inhibitor of plasminogen activator inhibitor type 1 that accelerates the transition into the latent conformation. J Biol Chem. 2013 Jan 11;288(2):873-85.

Ola Fjellström, et al. Characterization of a small molecule inhibitor of plasminogen activator inhibitor type 1 that accelerates the transition into the latent conformation. J Biol Chem. 2013 Jan 11;288(2):873-85.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481