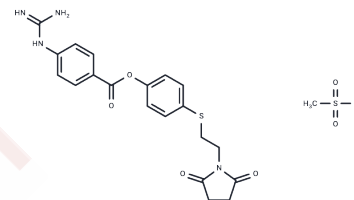


Patamostat mesylate

Chemical Properties

CAS No. :	114568-32-0
Formula:	C ₂₁ H ₂₄ N ₄ O ₇ S ₂
Molecular Weight:	508.57
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	Patamostat mesylate (E-3123) is a potent protease inhibitor with IC ₅₀ values of 39 nM for trypsin, 950 nM for plasmin, and 1.9 μM for thrombin. This compound demonstrates promising potential in suppressing the pathogenesis and development of acute pancreatitis.
Targets(IC ₅₀)	Apoptosis,HDAC,Serine Protease
In vivo	In male Wistar rats weighing approximately 350 g, Patamostat mesylate (2 mg/kg; continuous intravenous infusion for 1 hour) significantly improved the survival rate[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9663 mL	9.8315 mL	19.663 mL
5 mM	0.3933 mL	1.9663 mL	3.9326 mL
10 mM	0.1966 mL	0.9831 mL	1.9663 mL
50 mM	0.0393 mL	0.1966 mL	0.3933 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

- K Miyamoto, et al. [Effects of E-3123, a New Protease Inhibitor, on Several Protease Activities and on Experimental Acute Pancreatitis]. Nihon Yakurigaku Zasshi. 1988 May;91(5):285-93.
- T Hirano, et al. Protective Effect of a Cephalosporin, Shiomarin, Plus a New Potent Protease Inhibitor, E3123, on Rat Taurocholate-Induced Pancreatitis. J Gastroenterol Hepatol. Jan-Feb 1993;8(1):52-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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