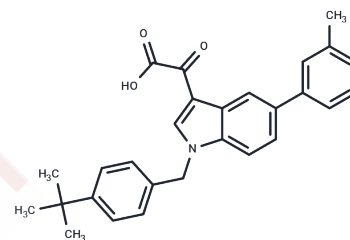


Aleplasinin

Chemical Properties

CAS No. :	481629-87-2
Formula:	C ₂₈ H ₂₇ N ₃ O ₃
Molecular Weight:	425.52
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	Aleplasinin (PAZ 417) is a selective and orally active inhibitor of Plasminogen activator inhibitor-1 (PAI-1) and a key negative regulator of the fibrinolytic system. Aleplasinin can be used in Alzheimer's disease studies.
Targets(IC50)	Beta Amyloid, PAI-1

Solubility Information

Solubility	DMSO: 245 mg/mL (575.77 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: 5 mg/mL (11.75 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	2.3501 mL	11.7503 mL	23.5007 mL
5 mM	0.470 mL	2.3501 mL	4.7001 mL
10 mM	0.235 mL	1.175 mL	2.3501 mL
50 mM	0.047 mL	0.235 mL	0.470 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

Jacobsen JS, et al. Enhanced clearance of Abeta in brain by sustaining the plasmin proteolysis cascade. Proc Natl Acad Sci U S A. 2008 Jun 24;105(25):8754-9.

Zhao J, Pei G. Evoking plasmin for beta-amyloid clearance. Cell Res. 2008 Aug;18(8):803-4.

Kellici TF, Pilka ES, Bodkin MJ. Therapeutic Potential of Targeting Plasminogen Activator Inhibitor-1 in COVID-19. Trends Pharmacol Sci. 2021 Jun;42(6):431-433.

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