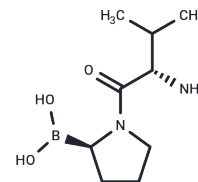


Talabostat mesylate

Chemical Properties

CAS No. : 150080-09-4
 Formula: C₁₀H₂₃BN₂O₆S
 Molecular Weight: 310.18
 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	Talabostat mesylate (PT100) is an orally active, selective inhibitor of dipeptidyl peptidases IV (DPP4, IC ₅₀ : 0.18 nM), including tumor-associated fibroblast activation protein. This agent may also stimulate the production of colony stimulating factors, such as granulocyte colony-stimulating factor (G-CSF), resulting in the stimulation of hematopoiesis.
Targets(IC ₅₀)	Proteasome,DPP-4

Solubility Information

Solubility	DMSO: 81.67 mg/mL (263.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	5% DMSO+95% Saline: 2 mg/mL (6.45 mM),Solution. 10% DMSO+90% Saline: 8.17 mg/mL (26.34 mM),Solution. <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	3.2239 mL	16.1197 mL	32.2393 mL
5 mM	0.6448 mL	3.2239 mL	6.4479 mL
10 mM	0.3224 mL	1.612 mL	3.2239 mL
50 mM	0.0645 mL	0.3224 mL	0.6448 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

- Cristillo AD, et al. HIV-1 Env vaccine comprised of electroporated DNA and protein co-administered with Talabostat. *Biochem Biophys Res Commun*. 2008 May 23;370(1):22-6.
- Luo Y, Zeng Z, Shan T, et al. Fibroblast activation protein α activatable theranostic pro-photosensitizer for accurate tumor imaging and highly-specific photodynamic therapy. *Theranostics*. 2022, 12(8): 3610
- Huang Y., et al. Fibroblast activation protein- α promotes tumor growth and invasion of breast cancer cells through non-enzymatic functions. *Clin Exp Metastasis*. 2011 Aug;28(6):567-79.
- Meany H, et al. Pediatric phase I trial design using maximum target inhibition as the primary endpoint. *J Natl Cancer Inst*. 2010 Jun 16;102(12):909-12.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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