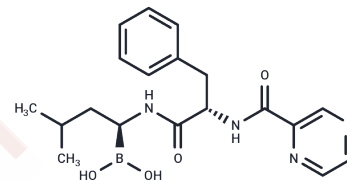


(1S,2S)-Bortezomib

Chemical Properties

CAS No. : 1132709-14-8
 Formula: C₁₉H₂₅BN₄O₄
 Molecular Weight: 384.24
 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	(1S,2S)-Bortezomib (Bortezomib) is an enantiomer of Bortezomib. Bortezomib is a reversible and selective inhibitor of the proteasome with a K_i of 0.6 nM for 20S proteasome.
Targets(IC50)	Apoptosis, Proteasome
In vitro	Bortezomib disrupts the cell cycle, induces apoptosis, inhibits NF- κ B, and possesses anti-cancer capacity[1].

Solubility Information

Solubility	DMSO: 40 mg/mL (104.1 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 (5.21 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	2.6025 mL	13.0127 mL	26.0254 mL
5 mM	0.5205 mL	2.6025 mL	5.2051 mL
10 mM	0.2603 mL	1.3013 mL	2.6025 mL
50 mM	0.0521 mL	0.2603 mL	0.5205 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

- Kamalzadeh Z, et al. Determination of Bortezomib in API Samples Using HPLC: Assessment of Enantiomeric and Diastereomeric Impurities. *J Chromatogr Sci.* 2017 Aug 1;55(7):697-705.
- Adams J, et al. Proteasome inhibitors: a novel class of potent and effective antitumor agents. *Cancer Res.* 1999 Jun 1;59(11):2615-22.
- Shahshahan MA, et al. Potential usage of proteasome inhibitor bortezomib (Velcade, PS-341) in the treatment of metastatic melanoma: basic and clinical aspects. *Am J Cancer Res.* 2011;1(7):913-24.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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