

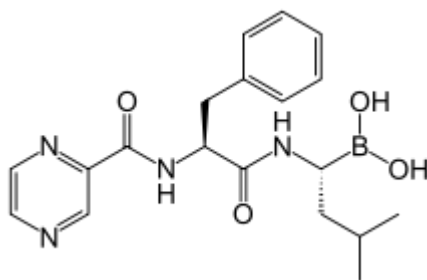
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MATERIAL DATA SHEET**PS-341, Synthetic****Cat. # I-200**

The dipeptide-boronic acid analogue PS-341 is the active ingredient in Bortezomib (Velcade, Millennium Pharmaceuticals). This potent, cell permeable molecule inhibits primarily the chymotryptic activity of the proteasome without substantially altering tryptic or caspase-like activities. PS-341 inhibits proliferation of a number of tumor cell lines with nanomolar potency, and is approved by the USFDA for the treatment of multiple myeloma.

Product Information**Quantity:** 5 mg**FW:** 384**Structure:****Physical/Chemical Characteristics****Solubility:** Soluble in ethanol and DMSO to 200 mg/mL. Poorly soluble in water (estimated 5-10 μ M).**Purity:** > 99% by HPLC and TLC**Activity:** IC₅₀ = 9 nM reported for MM1.S multiple myeloma cell line (72 hour assay)**Use & Storage****Storage:** Store lyophilized material at -20°C. Avoid multiple freeze/thaw cycles after reconstitution.**Literature****References:** Adams, J. and Kauffman, M. (2004) *Cancer Invest.* **22**: 304-311
Chauhan, D., *et al.* (2005) *Cancer Cell* **8**: 407-419
Horton, T.M., *et al.* (2006) *Cancer Chemother Pharmacol* **58**: 13-23

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