

Product Name	: Bortezomib
Synonyms	: PS-341;PS341;PS 341
Cat No.	: M12704
CAS Number	: 179324-69-7
Molecular Formula	: C ₁₉ H ₂₅ BN ₄ O ₄
Formula Weight	: 384.24
Chemical Name	: Boronic acid, B-[(1R)-3-methyl-1-[[[(2S)-1-oxo-3-phenyl-2-[(2-pyrazinylcarbonyl)amino]propyl]amino]butyl]-
Description	: Bortezomib (PS-341) is a potent, selective, competitive, orally active Proteasome inhibitor with K _i of 0.6 nM for 20S Proteasome; shows only modest activity toward serine and thiol proteases (cathepsin G, elastase, chymotrypsin K _i >300 nM); inhibits the TNF α -stimulated activation of NF- κ B in primary HUVE cells (IC ₅₀ =0.5 μ M) by blocking the degradation of the inhibitor I κ B α ; exhibits anti-inflammatory effects in vivo. Blood Cancer Approved
Pathway	: Proteasome/Ubiquitin
Target	: Proteasome
Receptor	: 20Sproteasome
Solubility	: 10 mM in DMSO
SMILES	: <chem>CC(C)C[C@@H](B(O)O)NC([C@@H](NC(C1=NC=CN=C1)=O)CC2=CC=CC=C2)=O</chem>
Storage	: (-20°C)
Stability	: $\geq$ 2 years
Reference	:

1. Palombella VJ, et al. Proc Natl Acad Sci U S A. 1998 Dec 22;95(26):15671-6. | 2. Frankel A, et al. Clin Cancer Res. 2000 Sep;6(9):3719-28. | 3. Teicher BA, et al. Clin Cancer Res. 1999 Sep;5(9):2638-45. | 4. Adams J, et al. Bioorg Med Chem Lett. 1998 Feb 17;8(4):333-8.