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DATASHEET

PS-341 [Bortezomib]

Product overview

Name	PS-341 [Bortezomib]
Cat No	HB4036
Purity	>98%
Description	Highly potent, selective, reversible and cell permeable proteasome inhibitor

Images



Biological Data

Biological description	Highly potent, selective and reversible cell permeable inhibitor of the proteasome. Inhibits the chymotrypsin-like and caspase-like peptidase activity of the proteasome. Calpain and cathepsin inhibitor. Autophagy activator. Anticancer compound. Inhibits proliferation and migration of several tumor cell lines with nanomolar potency. Apoptosis inducer.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Molecular Weight	384.2
Chemical structure	
Molecular Formula	C ₁₉ H ₂₅ BN ₄ O ₄
CAS Number	179324-69-7
PubChem identifier	387447
SMILES	CC(C)C[C@H](NC(=O)[C@H](Cc1ccccc1)NC(=O)c2cncnc2)B(O)O
InChiKey	GXJABQQUPOEUTA-RDJZCZTQSA-N
Appearance	White solid

References

The proteasome inhibitor PS-341 inhibits growth, induces apoptosis, and overcomes drug resistance in human multiple myeloma cells

Hideshima et al (3071-6.) Cancer Res. 61(7)

PubMedID [11306489](#)

Proteasome inhibitor PS-341 induces apoptosis through induction of endoplasmic reticulum stress-reactive oxygen species in head and neck squamous cell carcinoma cells

Fribley et al (2004) Mol Cell Biol 24(22)

PubMedID [15509775](#)

Development of the proteasome inhibitor PS-341

Adams et al (2002) Oncologist 7(1)

PubMedID [11854543](#)
