



## Bortezomib

## Data Sheet

<b>Catalog Number:</b>	MC11074	<b>Product Type:</b>	Small Molecule
<b>Bio-Activity:</b>	Proteasome inhibitor	<b>CAS #:</b>	179324-69-7
<b>Research Categories:</b>	Ubiquitin/proteasome, angiogenesis, cancer	<b>Chemical Name:</b>	N-(2-Pyrazine)carbonyl-L-phenylalanine-L-leucine boronic acid
<b>Solubility:</b>	Soluble in DMSO (up to 50 mg/ml) or in Ethanol (up to 35 mg/ml).	<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>25</sub> BN <sub>4</sub> O <sub>4</sub>
<b>Purity:</b>	> 98%	<b>Molecular Weight:</b>	384.2
<b>Format:</b>	Powder	<b>Ship Temp:</b>	Ambient
<b>Storage:</b>	-20°C		

### Application Notes

#### Description/Data:

Potent and selective proteasome inhibitor ( $K_i=0.6$  nM) [1]. Inhibits proliferation of a number of tumor cell lines ( $IC_{50}=7$  nM) [2]. Inhibits TNF $\alpha$  synthesis and FGF-induced angiogenesis. Clinically useful agent for treatment of multiple myeloma [3]. Shows promise in the treatment of neurodegenerative diseases in which low-expressing proteins such as IKAP/hELP1 in familial dysautonomia are preserved [4]. Reversible. Cell permeable.

#### References:

- 1) J Adams et al. Cancer Res. 1999 59:2615
- 2) S Williams et al. Mol. Cancer Ther. 2003 2:835
- 3) PG Richardson et al. Cancer Control. 2003 10:361
- 4) M Herve and EC Ibrahim Neurobiol. Dis. 2017 103:113

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