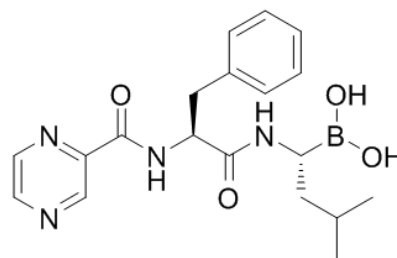


**Product Name** : Bortezomib  
**Cat. No.** : PC-42470  
**CAS No.** : 179324-69-7  
**Molecular Formula** : C<sub>19</sub>H<sub>25</sub>BN<sub>4</sub>O<sub>4</sub>  
**Molecular Weight** : 384.2372  
**Target** : Proteasome  
**Solubility** : 10 mM in DMSO  
4. Adams J, et al. Bioorg Med Chem Lett. 1998 Feb 17;8(4):333-8.



## Biological Activity

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 $\alpha$ -stimulated activation of NF- $\kappa$ B in primary HUVE cells ( $IC_{50} = 0.5$   $\mu$ M) by blocking the degradation of the inhibitor I $\kappa$ B $\alpha$ ; exhibits anti-inflammatory effects in vivo.

Blood Cancer  
Approved

## References

- Palombella VJ, et al. Proc Natl Acad Sci U S A. 1998 Dec 22;95(26):15671-6.  
Frankel A, et al. Clin Cancer Res. 2000 Sep;6(9):3719-28.  
Teicher BA, et al. Clin Cancer Res. 1999 Sep;5(9):2638-45.

