

Product Name	: Carfilzomib
Synonyms	: PR 171;PR171;PR-171
Cat No.	: M16308
CAS Number	: 868540-17-4
Molecular Formula	: C ₄₀ H ₅₇ N ₅ O ₇
Formula Weight	: 719.91
Chemical Name	: L-Phenylalaninamide, (αS)-α-[[2-(4-morpholinyl)acetyl]amino]benzenebutanoyl-L-leucyl-N-[(1S)-3-methyl-1-[(2R)-2-methyl-2-oxiranyl]carbonyl]butyl]-
Description	: A potent, highly selective inhibitor chymotrypsin-like activity of proteasome with IC ₅₀ of 6 nM; weakly inhibits caspase-like and trypsin-like activities in cellular assays (IC ₅₀ 150-200 nM), also inhibits the chymotrypsin-like activity of the immunoproteasome (IC ₅₀ =33 nM); accumulates proteasome substrates and induces cell cycle arrest and/or apoptosis; shows antitumor efficacy in vivo. Blood Cancer Approved
Pathway	: Proteasome/Ubiquitin
Target	: Proteasome
Receptor	: Proteasome
Solubility	: 10 mM in DMSO
SMILES	: <chem>CC(C)C[C@H](NC([C@@H](NC(CN1CCOCC1)=O)CCC2=CC=CC=C2)=O)C(N[C@@H](CC3=CC=CC=C3)C(N[C@@H](CC(C)C)C([C@H]4(C)OC4=O)=O)=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Kuhn DJ, et al. Blood. 2007 Nov 1;110(9):3281-90. | 2. Parlati F, et al. Blood. 2009 Oct 15;114(16):3439-47. | 3. O'Connor OA, et al. Clin Cancer Res. 2009 Nov 15;15(22):7085-91. | 4. Demo SD, et al. Cancer Res. 2007 Jul 1;67(13):6383-91.