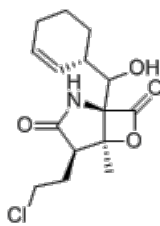


Product Name	: Marizomib
Synonyms	: NPI 0052; Salinosporamide A
Cat No.	: M14488
CAS Number	: 437742-34-2
Molecular Formula	: C ₁₅ H ₂₀ ClNO ₄
Formula Weight	: 313.78
Chemical Name	: (1R,4R,5S)-4-(2-Chloroethyl)-1-[(S)-(1S)-2-cyclohexen-1-ylhydroxymethyl]-5-methyl-6-oxa-2-azabicyclo[3.2.0]heptane-3,7-dione
Description	 A potent, orally bioactive 20S proteasome inhibitor with IC₅₀ of 1.3 nM (inhibition of proteasomal chymotrypsin-like proteolytic activity); displays 35 times more potent than omuralide; induces apoptosis in multiple myeloma cells with mechanisms distinct from Bortezomib, including chemical structure, effects on proteasome activities, mechanisms of action, and toxicity profile against normal cells; significantly reduces tumor recurrence in animal tumor model studies. Blood Cancer Phase 2 Clinical
Pathway	: Proteasome/Ubiquitin
Target	: Proteasome
Receptor	: Proteasome
Solubility	: —
SMILES	: <chem>Cl[C@]12[C@H](C(=O)N[C@]1(C(=O)O2)[C@H]([C@H]3CCCC=C3)O)CCCl</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Chauhan D, et al. Cancer Cell. 2005 Nov;8(5):407-19. | 2. Feling RH, et al. Angew Chem Int Ed Engl. 2003 Jan 20;42(3):355-7. | 3. Ruiz S, et al. Mol Cancer Ther. 2006 Jul;5(7):1836-43.