

Product Name	: Melflufen
Synonyms	: Melphalan flufenamide; J1
Cat No.	: M14311
CAS Number	: 380449-51-4
Molecular Formula	: C ₂₄ H ₃₀ Cl ₂ FN ₃ O ₃
Formula Weight	: 498.42
Chemical Name	: ethyl (S)-2-((S)-2-amino-3-(4-(bis(2-chloroethyl)amino)phenyl)propanamido)-3-(4-fluorophenyl)propanoate
Description	: Melflufen (Melphalan flufenamide, J1) is a novel dipeptide and alkylating prodrug of melphalan, inhibits angiogenesis in vitro and in vivo; shows cytotoxic activity against lymphoma cell lines with IC ₅₀ of 0.011-0.92 uM, also shows significantly lower IC ₅₀ than melphalan in multiple myeloma cells; induces apoptosis even in melphalan- and bortezomib-resistant multiple myeloma cells. Blood Cancer Phase 3 Clinical
Pathway	: Cell Cycle/DNA Damage
Target	: DNA Alkylator
Receptor	: DNA Alkylator
Solubility	: —
SMILES	: <chem>CCOC(=O)C(CC1=CC=C(C=C1)F)NC(=O)C(CC2=CC=C(C=C2)N(CCCl)CCCl)N</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Wickström M, et al. Oncotarget. 2017 Jun 8;8(39):66641-66655. | 2. Carlier C, et al. Oncotarget. 2016 Sep 13;7(37):59322-59335. | 3. Delforouh M, et al. BMC Cancer. 2016 Apr 4;16:263. | 4. Chauhan D, et al. Clin Cancer Res. 2013 Jun 1;19(11):3019-31.

