

Product Information

Maleimide/Oxhydryl PEG reagent, Mal-PEG4-Val-Cit-PAB-OH, Purity 98%

Cat. No.: X24-03-YW0494

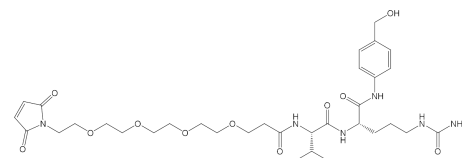
Size: 50 mg; 100 mg; 250 mg; 500 mg

CAS Number: 2055041-39-7

PubChem CID: 119058241

Synonym: 2055041-39-7; Mal-PEG4-Val-Cit-PAB-OH; Mal-PEG(4)-Val-Cit-PAB;

SCHEMBL24224636



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Mal-PEG4-Val-Cit-PAB-OH is a reagent grade cleavable peptide linker featuring a maleimide group, PEG4 spacer, and Val-Cit moiety.
Molecular Weight	706.8
Molecular Formula	C ₃₃ H ₅₀ N ₆ O ₁₁
Functional Group 1	Maleimide
Functional Group 2	Oxhydryl
Functional Group 3	None
Reactive Group 1	Acid
Reactive Group 2	Isocyanate
Reactive Group 3	Thiol
IUPAC Name	(2S)-5-(Carbamoylamino)-2-[[[(2S)-2-[3-[2-[2-[2-[2-(2,5-dioxopyrrol-1-yl)ethoxy]ethoxy]ethoxy]ethoxy]propanoylamino]-3-methylbutanoyl]amino]-N-[4-(hydroxymethyl)phenyl]pentanamide
InChI	InChI=1S/C33H50N6O11/c1-23(2)30(32(45)37-26(4-3-12-35-33(34)46)31(44)36-25-7-5-24(22-40)6-8-25)38-27(41)11-14-47-16-18-49-20-21-50-19-17-48-15-13-39-28(42)9-10-29(39)43/h5-10,23,26,30,40H,3-4,11-22H2,1-2H3,(H,36,44)(H,37,45)(H,38,41)(H3,34,35,46)/t26-,30-/m0/s1
InChI Key	RFGYJIMAJDHMSQ-YZNIXAGQSA-N
Canonical SMILES	CC(C)C(C(=O)NC(CCCNC(=O)N)C(=O)NC1=CC=C(C=C1)CO)NC(=O)CCOCCOCCOCCOCCN2C(=O)C=CC2=O
Isomeric SMILES	CC(C)[C@@H](C(=O)N[C@@H](CCCNC(=O)N)C(=O)NC1=CC=C(C=C1)CO)NC(=O)CCOCCOCCOCCOCCN2C(=O)C=CC2=O

Form	Solid
Purity	98%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	Mal-PEG4-Val-Cit-PAB-OH is used in bioconjugation and targeted drug delivery research, enabling specific payload release by Cathepsin B cleavage and efficient thiol conjugation at pH 6.5 to 7.5.
Storage	Store at -20°C.