

Product Information

Amino/Maleimide PEG reagent, *N*-(Mal-PEG6)-*N*-bis(PEG3-amine), TFA salt, Purity 98%

Cat. No.: X24-03-YW0002

Size: 50 mg; 100 mg; 250 mg

CAS Number: 2055040-99-6

PubChem CID: 119058263

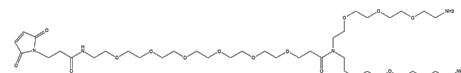
Synonym: 2055040-99-6; *N*-(Mal-PEG6)-*N*-bis(PEG3-amine); *N*-(Mal-

PEG6)-*N*-bis(PEG3-amine) TFA salt; *N*

-[2-[2-[2-[2-[2-[2-[3-[bis[2-[2-[2-(2-Aminoethoxy)ethoxy]ethoxy]ethyl]amino]-3-oxopropo

xy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]-3-(2,5-dioxopyrrol-1-yl)propanamide;

AKOS040742244



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

Product Information

Description	<i>N</i> --(Mal-PEG6)- <i>N</i> -bis(PEG3-amine), TFA salt is a water-soluble PEG linker containing a maleimide and two amino groups. The maleimide group reacts with thiol groups to form covalent bonds, facilitating biomolecule conjugation. The amino groups are reactive with various functional groups like carboxylic acids and activated NHS esters.
Molecular Weight	854.0
Molecular Formula	C ₃₈ H ₇₁ N ₅ O ₁₆
Functional Group 1	Amino
Functional Group 2	Maleimide
Functional Group 3	None
Reactive Group 1	Thiol
IUPAC Name	<i>N</i> -[2-[2-[2-[2-[2-[2-[3-[bis[2-[2-[2-(2-aminoethoxy)ethoxy]ethoxy]ethyl]amino]-3-oxopropoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]-3-(2,5-dioxopyrrol-1-yl)propanamide
InChI	InChI=1S/C38H71N5O16/c39-5-12-49-18-24-55-27-21-52-15-9-42(10-16-53-22-28-56-25-19-50-13-6-40)36(45)4-11-48-17-23-54-29-31-58-33-34-59-32-30-57-26-20-51-14-7-41-35(44)3-8-43-37(46)1-2-38(43)47/h1-2H,3-34,39-40H2,(H,41,44)
InChI Key	MTPICRUTEDPRDC-UHFFFAOYSA-N
Canonical SMILES	C1=CC(=O)N(C1=O)CCC(=O)NCCOCCOCCOCCOCCOCCOCCOCC(=O)N(CCOCOCOCOCN)CCO

	CCOCCOCCN
Form	Oil
Purity	98%
Solubility	Water, DMSO, DMF
Identity	Confirmed by NMR.
Applications	This linker is crucial in bioconjugation reactions, enabling the attachment of biomolecules to surfaces or other biomolecules. <i>N</i>-(Mal-PEG6)-<i>N</i>-bis(PEG3-amine), TFA salt is particularly useful in protein labeling, antibody conjugation, and drug delivery systems, enhancing specificity and stability.
Storage	Store at -20°C