

Product Information

NHS PEG reagent, Bis-sulfone-PEG4-NHS ester, 93%

Cat. No.: X24-09-YYX177

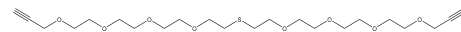
Size: 100 mg; 250 mg; 500 mg

CAS Number: 2055047-19-1

PubChem CID: 123132077

Synonym: 2055047-19-1; Bis-sulfone-PEG4-NHS ester

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



Product Information

Description	Bis-sulfone-PEG4-NHS ester has bis-sulfone and PEG4 groups along with an NHS ester. The sulfone groups can provide specific chemical reactivity, while the PEG4 chain contributes to solubility. The NHS ester allows for conjugation with amine-containing molecules. This compound is often used in chemical synthesis and in the modification of biomolecules for various applications such as targeted drug delivery and bioconjugation studies.
Molecular Weight	845
Molecular Formula	C ₄₀ H ₄₈ N ₂ O ₁₄ S ₂
Functional Group 1	Ester
Functional Group 2	NHS
Functional Group 3	Sulfonyl
Reactive Group 1	Amine
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-[2-[2-[4-[3-(4-methylphenyl)sulfonyl-2-[(4-methylphenyl)sulfonylmethyl]propanoyl]benzoyl]amino]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C40H48N2O14S2/c1-29-3-11-34(12-4-29)57(48,49)27-33(28-58(50,51)35-13-5-30(2)6-14-35)39(46)31-7-9-32(10-8-31)40(47)41-18-20-53-22-24-55-26-25-54-23-21-52-19-17-38(45)56-42-36(43)15-16-37(42)44/h3-14,33H,15-28H2,1-2H3,(H,41,47)
InChI Key	VCYROJRQWRDNJR-UHFFFAOYSA-N
Canonical SMILES	CC1=CC=C(C=C1)S(=O)(=O)CC(CS(=O)(=O)C2=CC=C(C=C2)C)C(=O)C3=CC=C(C=C3)C(=O)NCCOCCOCCOCCOCC(=O)ON4C(=O)CCC4=O
Form	Solid or viscous liquid
Purity	93%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.

Applications	This compound can be utilized in the development of crosslinkers in protein engineering and drug delivery systems. The bis-sulfone moiety provides reactive sites for conjugation, enhancing the stability of the resulting bioconjugates.
Storage	Store at -20°C.