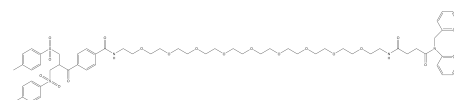


DBCO/Sulfone PEG reagent, Bis-Sulfone-PEG9-DBCO, Purity 96%

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



Description	Bis-sulfone-PEG9-DBCO is a reagent grade bis-alkylating labeling reagent selective for cysteine sulfur atoms from native disulfide bonds.
Molecular Weight	1,226.5
Molecular Formula	C ₆₄ H ₇₉ N ₃ O ₁₇ S ₂
Functional Group 1	DBCO
Functional Group 2	Sulfone
Functional Group 3	None
Reactive Group 1	Azide
Reactive Group 2	Thiol
IUPAC Name	<i>N</i> -[2-[2-[2-[2-[2-[2-[2-[2-[4-(2-azatricyclo[10.4.0.0 ^{4,9}]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-4-oxobutanoyl]amino]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]-4-[3-(4-methylphenyl)sulfonyl-2-[(4-methylphenyl)sulfonylmethyl]propanoyl]benzamide
InChI	InChI=1S/C64H79N3O17S2/c1-50-11-21-58(22-12-50)85(72,73)48-57(49-86(74,75)59-23-13-51(2)14-24-59)63(70)54-17-19-55(20-18-54)64(71)66-28-30-77-32-34-79-36-38-81-40-42-83-44-46-84-45-43-82-41-39-80-37-35-78-33-31-76-29-27-65-61(68)25-26-62(69)67-47-56-9-4-3-7-52(56)15-16-53-8-5-6-10-60(53)67/h3-14,17-24,57H,25-49H2,1-2H3,(H,65,68)(H,66,71)
InChI Key	JIIIWDWABQEVGM-UHFFFAOYSA-N
Canonical SMILES	<chem>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)NCOCOCOCOCOCOCOCOCOCOCOCOCOCOCNC(=O)CCC(=O)N4CC5=CC=CC=C5C#CC6=CC=CC=C64</chem>
Form	Liquid/Solid

Purity	96%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	Bis-sulfone-PEG9-DBCO is used in bioconjugation and molecular biology research, facilitating covalent rebridging of disulfide bonds via a three-carbon bridge. It is ideal for conjugating thiols derived from cysteine residues, maintaining protein structural integrity.
Storage	Store at -20°C.