

Acid/S-S disulfide bond PEG reagent, Acid-PEG6-SS-PEG6-acid, Purity 98%

[illegible]

CAS Number: 2055014-97-4

Synonym: 2055014-97-4; Acid-PEG6-SS-PEG6-acid; Bis-(PEG6-acid)-SS;

AKOS040743076; BP-22791

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

Product Information

Description	Acid-PEG6-SS-PEG6-acid is a reagent grade homobifunctional cleavable linker featuring terminal carboxylic acids and a PEG6 spacer.
Molecular Weight	738.9
Molecular Formula	C ₃₀ H ₅₈ O ₁₆ S ₂
Functional Group 1	Acid
Functional Group 2	S-S disulfide bond
Functional Group 3	None
Reactive Group 1	Amine
IUPAC Name	3-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Carboxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]disulfanyl]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoic acid
InChI	InChI=1S/C30H58O16S2/c31-29(32)1-3-35-5-7-37-9-11-39-13-15-41-17-19-43-21-23-45-25-27-47-48-28-26-46-24-22-44-20-18-42-16-14-40-12-10-38-8-6-36-4-2-30(33)34/h1-28H2,(H,31,32)(H,33,34)
InChI Key	RHICOZGMGAXZEH-UHFFFAOYSA-N
Canonical SMILES	C(COCCOCCOCCOCCOCCOCCSSCCOCCOCCOCCOCCOCCOCCC(=O)O)C(=O)O
Form	Sticky liquid
Purity	98%
Identity	Confirmed by NMR.
Applications	Acid-PEG6-SS-PEG6-acid is used in bioconjugation and molecular biology research, enabling the formation of stable amide bonds with primary amines and providing controlled release through disulfide bond cleavage, while improving solubility with the PEG spacer.
Storage	Store at -20°C.

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