

Product Information

Biotin/NHS/S-S disulfide bond PEG reagent, Sulfo-NHS-SS-biotin, Purity 90%

Cat. No.: X24-03-YW0461

Size: 100 mg; 500 mg; 1 g

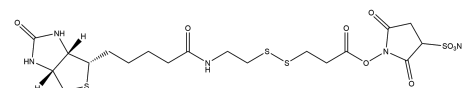
CAS Number: 325143-98-4

PubChem CID: 71571496

Synonym: 325143-98-4; Sulfo-NHS-SS-Biotin; Sulfo-NHS-SS-Biotin (sodium);

Sulfosuccinimidyl 3-[[2-(biotinamido)ethyl]dithio]propionate

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



Product Information

Description	Sulfo-NHS-SS-biotin is a reagent grade cleavable biotinylation reagent for introducing a biotin moiety to proteins and cell surfaces containing primary amines.
Molecular Weight	606.7
Molecular Formula	C ₁₉ H ₂₇ N ₄ NaO ₉ S ₄
Functional Group 1	Biotin
Functional Group 2	NHS
Functional Group 3	S-S disulfide bond
Reactive Group 1	Amine
IUPAC Name	Sodium;1-[3-[2-[5-[(3a <i>S</i> ,4 <i>S</i> ,6a <i>R</i>)-2-oxo-1,3,3a,4,6,6a-hexahydrothieno[3,4- <i>d</i>]imidazol-4-yl]pentanoyl amino]ethyl]disulfanyl]propanoyloxy]-2,5-dioxopyrrolidine-3-sulfonate
InChI	InChI=1S/C19H28N4O9S4.Na/c24-14(4-2-1-3-12-17-11(10-33-12)21-19(28)22-17)20-6-8-35-34-7-5-16(26)32-23-15(25)9-13(18(23)27)36(29,30)31;/h11-13,17H,1-10H2,(H,20,24)(H2,21,22,28)(H,29,30,31);/q;+1/p-1/t11-,12-,13?,17-;/m0./s1
InChI Key	IBKZNJXGCVTBZ-IDBHZBAZSA-M
Canonical SMILES	C1C(C(=O)N(C1=O)OC(=O)CCSSCCNC(=O)CCCCC2C3C(CS2)NC(=O)N3)S(=O)(=O)[O-].[Na+]
Isomeric SMILES	C1[C@H]2[C@@H]([C@@H]([C@@H](S1)CCCCC(=O)NCCSSCCC(=O)ON3C(=O)CC(C3=O)S(=O)(=O)[O-])NC(=O)N2.[Na+]
Form	Solid
Purity	90%
Identity	Confirmed by NMR.
Applications	Sulfo-NHS-SS-biotin is used in bioconjugation and molecular biology research, enabling efficient

biotinylation and providing controlled release of the biotin label through disulfide bond cleavage.

Storage	Store at -20°C.
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