

Product Information

Alcohol/Biotin PEG reagent, Biotin-PEG3-alcohol, Purity 98%

Cat. No.: X24-03-YW0160

Size: 500 mg; 1 g; 2 g

CAS Number: 289714-02-9

PubChem CID: 15479401

Synonym: 289714-02-9; Biotin-PEG3-alcohol; (+)-biotin-PEG3-OH;

5-[(3a*S*,4*S*,6a*R*)-2-oxo

-1,3,3a,4,6,6a-

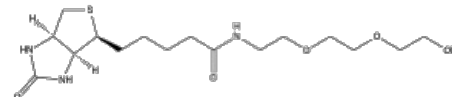
Hexahydrothieno[3,4-*d*]imidazol-4-yl]-*N*

-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]pentanamide; *N*

-(2-(2-(2-Hydroxyethoxy)ethoxy)ethyl)-5-((

3a*S*,4*S*,6a*R*)-2-oxohexahydro-1*H*-thieno[3,4-*d*]imidazol-4-yl]pentanamide

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



Product Information

Description	Biotin-PEG3-alcohol is a biotin PEG linker featuring a biotin group and a terminal primary hydroxyl (OH) functional group. The OH group provides reactivity with various functional groups for conjugation purposes.
Molecular Weight	375.5
Molecular Formula	C ₁₆ H ₂₉ N ₃ O ₅ S
Functional Group 1	Alcohol
Functional Group 2	Biotin
Functional Group 3	None
IUPAC Name	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]- <i>N</i> -[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]pentanamide
InChI	InChI=1S/C16H29N3O5S/c20-6-8-24-10-9-23-7-5-17-14(21)4-2-1-3-13-15-12(11-25-13)18-16(22)19-15/h12-13,15,20H,1-11H2,(H,17,21)(H2,18,19,22)/t12-,13-,15-/m0/s1
InChI Key	JMPJDHGWKSPEEE-YDHLFZDLSA-N
Canonical SMILES	C1C2C(C(S1)CCCCC(=O)NCCOCCOCCO)NC(=O)N2
Isomeric SMILES	C1[C@H]2[C@@H]([C@@H](S1)CCCCC(=O)NCCOCCOCCO)NC(=O)N2
Form	Solid

Purity	98%
Identity	Confirmed by NMR.
Applications	Biotin-PEG3-alcohol finds applications in bioconjugation reactions where the OH group can be utilized for coupling with reactive functional groups such as carboxylic acids or activated esters. It serves as a versatile tool for labeling proteins, peptides, antibodies, and other biomolecules for various biological and biochemical applications.
Storage	Store at -20°C