

Product Information

Biocytin PEG reagent, *N*-(Propargyl-PEG4)-biocytin, Purity 98%

Cat. No.: X24-10-WXX172

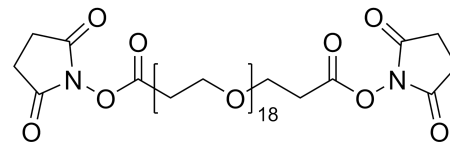
Size: 100 mg; 250 mg; 500 mg; 1 g

CAS Number: 2055042-71-0

PubChem CID: 123132113

Synonym: *N*-(Propargyl-PEG4)-biocytin; 2055042-71-0; DTXSID201099866;

AKOS040742254



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

Product Information

Description	<i>N</i> -(Propargyl-PEG4)-biocytin is a reagent grade biotin PEG reagent, designed for copper-catalyzed click chemistry reactions.
Molecular Weight	614.8
Molecular Formula	C ₂₈ H ₄₆ N ₄ O ₉ S
Functional Group 1	Biocytin
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	(2 <i>S</i>)-6-[5-[(3 <i>aS</i> ,4 <i>S</i> ,6 <i>aR</i>)-2-oxo-1,3,3 <i>a</i> ,4,6,6 <i>a</i> -hexahydrothieno[3,4- <i>d</i>]imidazol-4-yl]pentanoylamino]-2-[3-[2-[2-(2-prop-2-ynoxyethoxy)ethoxy]ethoxy]propanoylamino]hexanoic acid
InChI	InChI=1S/C28H46N4O9S/c1-2-12-38-14-16-40-18-19-41-17-15-39-13-10-25(34)30-21(27(35)36)7-5-6-11-29-24(33)9-4-3-8-23-26-22(20-42-23)31-28(37)32-26/h1,21-23,26H,3-20H2,(H,29,33)(H,30,34)(H,35,36)(H2,31,32,37)/t21-,22-,23-,26-/m0/s1
InChI Key	IPPRUAQKQUEPCX-HZLPDVBGSA-N
Canonical SMILES	C#CCOCCOCCOCCOCCC(=O)NC(CCCNC(=O)CCCC1C2C(CS1)NC(=O)N2)C(=O)O
Isomeric SMILES	C#CCOCCOCCOCCOCCC(=O)N[C@@H](CCCCNC(=O)CCCC[C@H]1[C@@H]2[C@H](CS1)NC(=O)N2)C(=O)O
Form	Solid
Purity	98%
Solubility	Water, DMSO, DMF
Identity	Confirmed by NMR.

Applications

N-(Propargyl-PEG4)-biotin is used in molecular biology and bioconjugation research, facilitating efficient copper-catalyzed click chemistry reactions with azide-containing molecules. Its unique structure lends itself to several applications across different fields, particularly in bioconjugation, drug delivery, and materials science.

Storage

Store at -20°C.
