

Product Information

Biotin PEG reagent, DADPS biotin alkyne, Purity 95%

Cat. No.: X24-10-WXX162

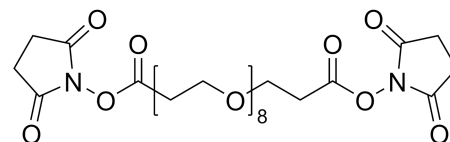
Size: 5 mg; 25 mg; 50 mg; 100 mg

CAS Number: 2241685-22-1

PubChem CID: 137700734

Synonym: 2241685-22-1; DADPS biotin alkyne; AKOS040743038

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



Product Information

Description	DADPS biotin alkyne contains a biotin moiety and an azide reactive moiety. DADPS probe is used in proteomic studies and biomolecular labeling.
Molecular Weight	827.1
Molecular Formula	C ₄₂ H ₆₂ N ₄ O ₉ SSi
Functional Group 1	Biotin
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Avidin
Reactive Group 2	Streptavidin
IUPAC Name	5-[(3 <i>a</i> S,4 <i>S</i> ,6 <i>a</i> R)-2-oxo-1,3,3 <i>a</i> ,4,6,6 <i>a</i> -hexahydrothieno[3,4- <i>d</i>]imidazol-4-yl]-N-[2-[2-[2-[2-[3-[[2-methyl-2-[pent-4-ynoxy(diphenyl)silyl]oxypropyl]amino]-3-oxopropoxy]ethoxy]ethoxy]ethoxy]ethyl]pentanamide
InChI	InChI=1S/C42H62N4O9SSi/c1-4-5-14-23-54-57(34-15-8-6-9-16-34,35-17-10-7-11-18-35)55-42(2,3)33-44-39(48)21-24-50-26-28-52-30-31-53-29-27-51-25-22-43-38(47)20-13-12-19-37-40-36(32-56-37)45-41(49)46-40/h1,6-11,15-18,36-37,40H,5,12-14,19-33H2,2-3H3,(H,43,47)(H,44,48)(H2,45,46,49)/t36-,37-,40-/m0/s1
InChI Key	DJUQDDBYPFLTPN-HKGQQODZSA-N
Canonical SMILES	CC(C)(CNC(=O)CCOCCOCCOCCOCCNC(=O)CCCC1C2C(CS1)NC(=O)N2)O[Si](C3=CC=CC=C3)(C4=CC=CC=C4)OCCCC#C
Isomeric SMILES	CC(C)(CNC(=O)CCOCCOCCOCCOCCNC(=O)CCCC[C@H]1[C@@H]2[C@H](CS1)NC(=O)N2)O[Si](C3=CC=CC=C3)(C4=CC=CC=C4)OCCCC#C
Form	Solid

Purity	95%
Identity	Confirmed by NMR.
Applications	DADPS biotin alkyne is typically used in azide-alkyne cycloaddition reactions, this compound enables the attachment of biotin to various biomolecules, aiding in affinity purification and detection in various biochemical assays.
Storage	Store at -20°C.
