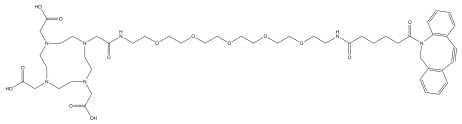
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

DBCO/DOTA PEG reagent, DOTA-PEG5-C6-DBCO, Purity 96%



Cat. No.: X24-03-YW0613

Size: 1 mg; 5 mg; 10 mg

PubChem CID: 134811427

Synonym: DOTA-PEG5-C6-DBCO; AKOS040743243

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

Product Information

Description	DOTA-PEG5-C6-DBCO features a DOTA chelator for metal ion binding and a DBCO moiety for strain-promoted Click Chemistry, linked via a hydrophilic PEG5 spacer.
Molecular Weight	982.2
Molecular Formula	$C_{49}H_{71}N_7O_{14}$
Functional Group 1	DBCO
Functional Group 2	DOTA
Reactive Group 1	Azide
Reactive Group 2	Chelation
IUPAC Name	2-[4-[2-[2-[2-[2-[2-[2-[2-[[6-(2-Azatricyclo[10.4.0.0^{4,9}]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-6-oxohexanoyl]amino]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethylamino]-2-oxoethyl]-7,10-bis(carboxymethyl)-1,4,7,10-tetrazacyclododec-1-yl]acetic acid
InChI	InChI=1S/C49H71N7O14/c57-44(11-5-6-12-46(59)56-35-42-9-2-1-7-40(42)13-14-41-8-3-4-10-43(41)56)50-15-25-66-27-29-68-31-33-70-34-32-69-30-28-67-26-16-51-45(58)36-52-17-19-53(37-47(60)61)21-23-55(39-49(64)65)24-22-54(20-18-52)38-48(62)63/h1-4,7-10H,5-6,11-12,15-39H2,(H,50,57)(H,51,58)(H,60,61)(H,62,63)(H,64,65)
InChI Key	KJESTZWHHDGJAU-UHFFFAOYSA-N
Canonical SMILES	C1CN(CCN(CCN(CCN1CC(=O)NCCOCCOCCOCCOCCOCCNC(=O)CCCCC(=O)N2CC3=CC=CC=C3C#CC4=CC=CC=C42)CC(=O)O)CC(=O)O)CC(=O)O
Form	Solid
Purity	96%
Solubility	DMSO, DMF, Acetonitrile
Identity	Confirmed by NMR.
Applications	DOTA-PEG5-C6-DBCO is used in bioorthogonal conjugation, imaging diagnostics, and radiolabeling for efficient chelation and rapid Click Chemistry reactions.

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Storage	Store at -20°C.

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