

## Product Information

### DBCO/TAMRA PEG reagent, TAMRA-PEG4-DBCO, Purity 95%

**Cat. No.:** X24-03-YW0570

**Size:** 1 mg; 5 mg; 25 mg

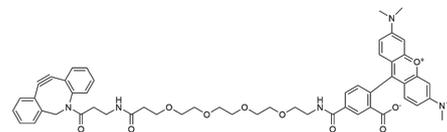
**CAS Number:** 1895849-41-8

**PubChem CID:** 91757905

**Synonym:** 1895849-41-8; TAMRA-PEG4-DBCO; DBCO-PEG4-TAMRA; TAMRA

DBCO; HY-D1070

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



#### Product Information

<b>Description</b>	TAMRA-PEG4-DBCO is a TAMRA dye labeling reagent PEG linker with a DBCO group for copper-free Click Chemistry.
<b>Molecular Weight</b>	936.1
<b>Molecular Formula</b>	C <sub>54</sub> H <sub>57</sub> N <sub>5</sub> O <sub>10</sub>
<b>Functional Group 1</b>	DBCO
<b>Functional Group 2</b>	TAMRA
<b>Functional Group 3</b>	None
<b>Reactive Group 1</b>	Alkyne
<b>IUPAC Name</b>	5-[2-[2-[2-[2-[3-[[3-(2-Azatricyclo[10.4.0.0 <sup>4,9</sup> ]]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl]-3-oxopropyl]amino]-3-oxopropoxy]ethoxy]ethoxy]ethoxy]ethylcarbamoyl]-2-[3-(dimethylamino)-6-dimethylazaniumylidenexanthen-9-yl]benzoate
<b>InChI</b>	InChI=1S/C54H57N5O10/c1-57(2)41-16-19-44-48(34-41)69-49-35-42(58(3)4)17-20-45(49)52(44)43-18-15-39(33-46(43)54(63)64)53(62)56-24-26-66-28-30-68-32-31-67-29-27-65-25-22-50(60)55-23-21-51(61)59-36-40-11-6-5-9-37(40)13-14-38-10-7-8-12-47(38)59/h5-12,15-20,33-35H,21-32,36H2,1-4H3,(H2-,55,56,60,62,63,64)
<b>InChI Key</b>	DTYTXEJLXHBCNC-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CN(C)C1=CC2=C(C=C1)C(=C3C=CC(=[N+](C)C)C=C3O2)C4=C(C=C(C=C4)C(=O)NCCOCCOCCOCCOCC(=O)NCCC(=O)N5CC6=CC=CC=C6C#CC7=CC=CC=C75)C(=O)[O-]
<b>Form</b>	Solid
<b>Purity</b>	95%
<b>Solubility</b>	DMSO, DMF, DCM

<b>Identity</b>	Confirmed by NMR.
<b>Applications</b>	TAMRA-PEG4-DBCO is used for oligonucleotide labeling and automated DNA sequencing, with its hydrophilic PEG spacer increasing solubility in aqueous media.
<b>Storage</b>	Store at -20°C.

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