

Product Information

Amine/Azide/Cy5 PEG reagent, *N*-(Azide-PEG3)-*N'*-(amine-C3-PEG4)-Cy5, Purity 98%

Cat. No.: X24-03-YW0568

Size: 1 mg; 2 mg; 5 mg

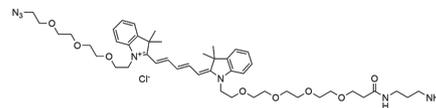
CAS Number: 2107273-70-9

PubChem CID: 167996531

Synonym: 2107273-70-9; *N*-(azide-PEG3)-*N'*-(Amine-C3-PEG4)-Cy5;

AKOS040743628

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



Product Information

Description	<i>N</i> -(azide-PEG3)- <i>N'</i> -(amine-C3-PEG4)-Cy5 is a PEG linker containing a cyanine dye with excitation/emission maxima of 649/667 nm and an azide group.
Molecular Weight	896.6
Molecular Formula	C ₄₇ H ₇₀ ClN ₇ O ₈
Functional Group 1	Amine
Functional Group 2	Azide
Functional Group 3	Cy5
Reactive Group 1	Acid
Reactive Group 2	Alkyne
IUPAC Name	<i>N</i> -(3-Aminopropyl)-3-[2-[2-[2-[2-[(1 <i>E</i> ,3 <i>E</i> ,5 <i>Z</i>)-5-[1-[2-[2-[2-(2-azidoethoxy)ethoxy]ethoxy]ethyl]-3,3-dimethylindol-2-ylidene]penta-1,3-dienyl]-3,3-dimethylindol-1-ium-1-yl]ethoxy]ethoxy]ethoxy]ethoxy]propanamide;chloride
InChI	InChI=1S/C47H69N7O8.ClH/c1-46(2)39-13-8-10-15-41(39)53(23-27-58-31-35-61-34-30-57-26-22-51-52-49)43(46)17-6-5-7-18-44-47(3,4)40-14-9-11-16-42(40)54(44)24-28-59-32-36-62-38-37-60-33-29-56-25-19-45(55)50-21-12-20-48;/h5-11,13-18H,12,19-38,48H2,1-4H3;1H
InChI Key	HEHYWAHYIBFKTR-UHFFFAOYSA-N
Canonical SMILES	CC1(C2=CC=CC=C2[N+])(=C1C=CC=CC=C3C(C4=CC=CC=C4N3CCOCCOCCOCCN=[N+]=[N-]))(C)C)CCOCCOCCOCCOCC(=O)NCCCN)C.[Cl-]
Isomeric SMILES	CC1(C2=CC=CC=C2[N+])(=C1/C=C/C=C/C=C\3/C(C4=CC=CC=C4N3CCOCCOCCOCCN=[N+]=[N-]))(C)C)CCOCCOCCOCCOCC(=O)NCCCN)C.[Cl-]
Form	Solid

Purity	98%
Solubility	Water, DMSO, DMF, DCM
Identity	Confirmed by NMR.
Applications	<i>N</i> -(azide-PEG3)- <i>N'</i> -(amine-C3-PEG4)-Cy5 enables Click Chemistry for bioconjugation, with increased solubility in aqueous media due to its hydrophilic PEG spacer.
Storage	Store at -20°C.
