

Product Information

Acid/Cy5 PEG reagent, Cy5-PEG6-acid, Purity 96%

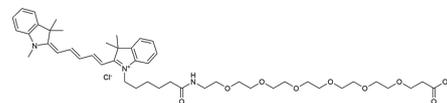
Cat. No.: X24-03-YW0560

Size: 5 mg; 10 mg; 25 mg

PubChem CID: 86276385

Synonym: Cy5-PEG6-acid; AKOS040743151; BP-22345; HY-141034; CS-0115820

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



Product Information

Description	Cy5-PEG6-acid is a PEG linker with a cyanine dye, excitation/emission maxima of 649/667 nm, and a terminal carboxyl acid.
Molecular Weight	854.5
Molecular Formula	C ₄₇ H ₆₈ ClN ₃ O ₉
Functional Group 1	Acid
Functional Group 2	Cy5
Functional Group 3	None
Reactive Group 1	Amine
IUPAC Name	3-[2-[2-[2-[2-[2-[2-[6-[(2E)-3,3-dimethyl-2-[(2E,4E)-5-(1,3,3-trimethylindol-1-ium-2-yl)penta-2,4-dienylidene]indol-1-yl]]hexanoylamino]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoic acid;chloride
InChI	InChI=1S/C47H67N3O9.ClH/c1-46(2)38-16-11-13-18-40(38)49(5)42(46)20-8-6-9-21-43-47(3,4)39-17-12-14-19-41(39)50(43)25-15-7-10-22-44(51)48-24-27-55-29-31-57-33-35-59-37-36-58-34-32-56-30-28-54-26-23-45(52)53;/h6,8-9,11-14,16-21H,7,10,15,22-37H2,1-5H3,(H-,48,51,52,53);1H
InChI Key	RKXHCQAKWSZSPM-UHFFFAOYSA-N
Canonical SMILES	CC1(C2=CC=CC=C2[N+])(=C1C=CC=CC=C3C(C4=CC=CC=C4N3CCCCC(=O)NCCOCCOCCOCCOCCOCCOCC(=O)O)(C)C)C.[Cl-]
Isomeric SMILES	CC1(C2=CC=CC=C2[N+])(=C1/C=C/C=C/C=C/3\C(C4=CC=CC=C4N3CCCCC(=O)NCCOCCOCCOCCOCCOCCOCC(=O)O)(C)C)C.[Cl-]
Form	Solid
Purity	96%
Solubility	Water, DMSO, DMF, DCM
Identity	Confirmed by NMR.

Applications

Cy5-PEG6-acid forms stable amide bonds with primary amines, enhancing solubility in aqueous media for bioconjugation and imaging.

Storage

Store at -20°C.
