

Product Information

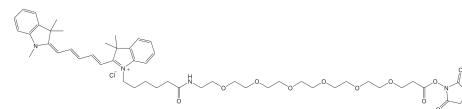
Cy5/NHS PEG reagent, Cy5-PEG6-NHS ester, Purity 96%

Cat. No.: X24-03-YW0540

Size: 1 mg; 2 mg; 5 mg

Synonym: Cy5-PEG6-NHS ester; AKOS040743152; BP-22350; HY-141044

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



Product Information

Description	Cy5-PEG6-NHS ester is a cyanine labeled PEG linker with excitation/emission maxima of 649/667 nm and an NHS ester group.
Molecular Weight	951.6
Molecular Formula	C ₅₁ H ₇₁ ClN ₄ O ₁₁
Functional Group 1	Cy5
Functional Group 2	NHS
Functional Group 3	None
Reactive Group 1	Amine
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-[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]et hoxy]ethoxy]ethoxy]ethoxy]propanoate;chloride
InChI	InChI=1S/C51H70N4O11.ClH/c1-50(2)40-16-11-13-18-42(40)53(5)44(50)20-8-6-9-21-45-51(3,4)41- 17-12-14-19-43(41)54(45)27-15-7-10-22-46(56)52-26-29-61-31-33-63-35-37-65-39-38-64-36-34-62- 32-30-60-28-25-49(59)66-55-47(57)23-24-48(55)58;/h6,8-9,11-14,16-21H,7,10,15,22-39H2,1-5H3;1 H
InChI Key	LRPAXAJJSGVXEK-UHFFFAOYSA-N
Canonical SMILES	CC1(C2=CC=CC=C2[N+])(=C1C=CC=CC=C3C(C4=CC=CC=C4N3CCCCC(=O)NCCOCCOCCOC COCCOCCOCC(=O)ON5C(=O)CCC5=O)(C)C)C.[Cl-]
Isomeric SMILES	CC1(C2=CC=CC=C2[N+])(=C1/C=C/C=C/C=C/C3\C4=CC=CC=C4N3CCCCC(=O)NCCOCCOCC OCCOCCOCCOCC(=O)ON5C(=O)CCC5=O)(C)C)C.[Cl-]
Form	Solid
Purity	96%
Solubility	DMSO, DMF, DCM
Identity	Confirmed by NMR.

Applications	Cy5-PEG6-NHS ester is used in bioconjugation and drug design research, enabling amine-reactive labeling and producing cyanine-labeled biomolecules for <i>in vivo</i> research.
Storage	Store at -20°C.