

Product Information

Acid/Cy5/Benzothiazole PEG reagent, *N*-(*m*-PEG4)-3,3-Dimethyl-³H-indole-*N'*-(acid-PEG3)-Benzothiazole Cy5, Purity 98%

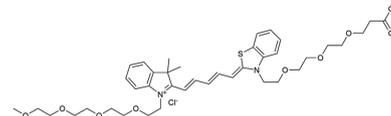
Cat. No.: X24-03-YW0557

Size: 1 mg; 2 mg

CAS Number: 2107273-86-7

PubChem CID: 168012274

Synonym: 2107273-86-7; AKOS040743670



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

Product Information

Description	<i>N</i> -(<i>m</i> -PEG4)-3,3-dimethyl-3 <i>H</i> -indole- <i>N'</i> -(acid-PEG3)-benzothiazole Cy5 is a PEG linker with a cyanine dye, excitation/emission maxima of 649/667 nm, and a terminal carboxyl acid.
Molecular Weight	775.4
Molecular Formula	C ₄₀ H ₅₅ ClN ₂ O ₉ S
Functional Group 1	Acid
Functional Group 2	Cy5
Functional Group 3	Benzothiazole
Reactive Group 1	Amine
IUPAC Name	3-[2-[2-[2-[2-[(1 <i>E</i> ,3 <i>E</i> ,5 <i>Z</i>)-5-[1-[2-[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy]ethyl]-3,3-dimethylindol-2-ylidene]penta-1,3-dienyl]-1,3-benzothiazol-3-ium-3-yl]ethoxy]ethoxy]ethoxy]propanoic acid;chloride
InChI	InChI=1S/C40H54N2O9S.ClH/c1-40(2)33-11-7-8-12-34(33)41(18-21-47-26-29-51-32-31-49-24-23-45-3)37(40)15-5-4-6-16-38-42(35-13-9-10-14-36(35)52-38)19-22-48-27-30-50-28-25-46-20-17-39(43)44;/h4-16H,17-32H2,1-3H3;1H
InChI Key	GWPPKGRUDZLUML-UHFFFAOYSA-N
Canonical SMILES	CC1(C2=CC=CC=C2N(C1=CC=CC=CC3=[N+](C4=CC=CC=C4S3)CCOCCOCCOCCC(=O)O)CCOCCOCCOCC)C.[Cl-]
Isomeric SMILES	CC\1(C2=CC=CC=C2N(/C1=C\C=C\C=C\C3=[N+](C4=CC=CC=C4S3)CCOCCOCCOCCC(=O)O)C)COCCOCCOCCOCC)C.[Cl-]
Form	Solid/liquid
Purity	98%
Solubility	Water, DMSO, DMF, DCM

Identity	Confirmed by NMR.
Applications	<i>N</i> -(m-PEG4)-3,3-dimethyl-3 <i>H</i> -indole- <i>N'</i> -(acid-PEG3)-benzothiazole Cy5 is used in forming stable amide bonds with primary amines, enhancing solubility in aqueous media for various research applications.
Storage	Store at -20°C.
