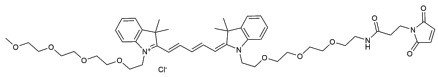
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

Maleimide/Cy5 PEG reagent, *N*-(m-PEG4)-*N'*-(PEG3-Mal)-Cy5, Purity 98%



Cat. No.: X24-03-YW0578

Size: 1 mg; 2 mg

PubChem CID: 126480523

Synonym: *N*-(m-PEG4)-*N'*-(PEG3-Mal)-Cy5; BP-23037; HY-141076; CS-0116055

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

Product Information

Description	*N*-(m-PEG4)-*N'*-(PEG3-Mal)-Cy5 is a cyanine5 dye linker containing a PEG4 chain and a PEG3-Mal chain, with excitation/emission at 646/662 nm.
Molecular Weight	907.6
Molecular Formula	$C_{49}H_{67}ClN_4O_{10}$
Functional Group 1	Maleimide
Functional Group 2	Cy5
Functional Group 3	None
Reactive Group 1	Thiol
IUPAC Name	3-(2,5-Dioxopyrrol-1-yl)-*N*-[2-[2-[2-[2-[2-[(1*E*,3*E*,5*E*)-5-[1-[2-[2-[2-(2-methoxyethoxy)ethoxy]ethoxy]ethyl]-3,3-dimethylindol-2-ylidene]penta-1,3-dienyl]-3,3-dimethylindol-1-ium-1-yl]ethoxy]ethoxy]ethoxy]ethyl]propanamide;chloride
InChI	InChI=1S/C49H66N4O10.ClH/c1-48(2)39-13-9-11-15-41(39)51(24-27-59-32-35-62-34-31-58-26-22-50-45(54)21-23-53-46(55)19-20-47(53)56)43(48)17-7-6-8-18-44-49(3,4)40-14-10-12-16-42(40)52(44)25-28-60-33-36-63-38-37-61-30-29-57-5;/h6-20H,21-38H2,1-5H3;1H
InChI Key	KQINBUJCBKWMHU-UHFFFAOYSA-N
Canonical SMILES	CC1(C2=CC=CC=C2[N+](=C1C=CC=CC=C3C(C4=CC=CC=C4N3CCOCCOCCOCCOC)(C)C)CCOCCOCCOCCNC(=O)CCN5C(=O)C=CC5=O)C.[Cl-]
Isomeric SMILES	CC1(C2=CC=CC=C2[N+](=C1/C=C/C=C/C=C/3\C(C4=CC=CC=C4N3CCOCCOCCOCCOC)(C)C)CCOCCOCCOCCNC(=O)CCN5C(=O)C=CC5=O)C.[Cl-]
Form	Solid
Purity	98%
Solubility	Water, DMSO, DMF, DCM
Identity	Confirmed by NMR.

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Applications	*N*-(m-PEG4)-*N'*-(PEG3-Mal)-Cy5 is used for labeling thiol-containing molecules, increasing solubility, and providing a stable fluorescent marker.
Storage	Store at -20°C.

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