

Product Information

Acid/Fluorescein PEG reagent, Fluorescein-PEG5-Acid, Purity 98%

Cat. No.: X24-03-YW0564

Size: 25 mg; 50 mg; 100 mg

CAS Number: 2183440-40-4

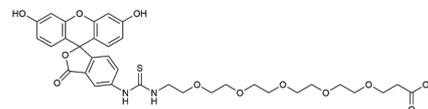
PubChem CID: 131954353

Synonym: 2183440-40-4; Fluorescein-PEG5-acid;

1-((3',6'-Dihydroxy-3-oxo-3H

-spiro[isobenzofuran-1,9'-xanthen]-5-yl)amino)-1-thioxo-5,8,11,14,17-pentaoxa-2-azai

cosan-20-oic acid; AKOS040741733; BP-23884



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

Product Information

Description	Fluorescein-PEG5-acid is a xanthene dye with excitation/emission maxima of 494/517 nm and a terminal carboxyl acid.
Molecular Weight	698.8
Molecular Formula	C ₃₄ H ₃₈ N ₂ O ₁₂ S
Functional Group 1	Acid
Functional Group 2	Fluorescein
Functional Group 3	None
Reactive Group 1	Amine
IUPAC Name	3-[2-[2-[2-[2-[2-[(3',6'-Dihydroxy-3-oxospiro[2-benzofuran-1,9'-xanthene]-5-yl)carbamothioylamino]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoic acid
InChI	InChI=1S/C34H38N2O12S/c37-23-2-5-27-29(20-23)47-30-21-24(38)3-6-28(30)34(27)26-4-1-22(19-25(26)32(41)48-34)36-33(49)35-8-10-43-12-14-45-16-18-46-17-15-44-13-11-42-9-7-31(39)40/h1-6,19-21,37-38H,7-18H2,(H,39,40)(H2,35,36,49)
InChI Key	CYVBKXKXVSETJX-UHFFFAOYSA-N
Canonical SMILES	C1=CC2=C(C=C1NC(=S)NCCOCCOCCOCCOCCOCCC(=O)O)C(=O)OC23C4=C(C=C(C=C4)O)OC5=C3C=CC(=C5)O
Form	Solid
Purity	98%
Solubility	Water, DMSO, DMF, DCM

Identity	Confirmed by NMR.
Applications	Fluorescein-PEG5-acid can react with primary amine groups to form stable amide bonds and is used as a quantum yield standard, with enhanced solubility in aqueous media due to its hydrophilic PEG spacer.
Storage	Store at -20°C.
