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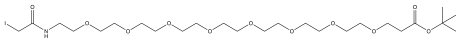
Product Information

Iodoacetamide/*t*-Butyl ester PEG reagent, Iodoacetamido-PEG8-*t*-butyl ester, Purity 96%



Cat. No.: X24-03-YW0623

Size: 50 mg; 100 mg; 250 mg

PubChem CID: 77078245

Synonym: Iodoacetamido-PEG8-*t*-butyl ester; BP-22102; *Tert*-butyl 3-[2-[2-[2-[2-[2-[2-[2-[2-[(2-iodoacetyl)amino]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate

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

Product Information

Description	Iodoacetamido-PEG8-*t*-butyl ester is a bifunctional PEG reagent featuring an iodoacetamide group and a *t*-butyl ester-protected carboxyl group. The iodoacetamide acts as a potent alkylating agent, capable of forming stable covalent bonds with thiol groups, while the t-butyl ester provides temporary protection that can be removed under acidic conditions.
Molecular Weight	665.6
Molecular Formula	$C_{25}H_{48}INO_{11}$
Functional Group 1	Iodoacetamide
Functional Group 2	*t*-Butyl ester
Reactive Group 1	Acid
Reactive Group 2	Thiol
IUPAC Name	*Tert*-butyl 3-[2-[2-[2-[2-[2-[2-[2-[2-[(2-iodoacetyl)amino]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C25H48INO11/c1-25(2,3)38-24(29)4-6-30-8-10-32-12-14-34-16-18-36-20-21-37-19-17-35-15-13-33-11-9-31-7-5-27-23(28)22-26/h4-22H2,1-3H3,(H,27,28)
InChI Key	ILIUZGAOVKXOGU-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCNC(=O)CI
Form	Solid
Purity	96%
Identity	Confirmed by NMR.
Applications	Iodoacetamido-PEG8-*t*-butyl ester is used in protein modification, bioconjugation, and drug delivery.

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	It enables selective thiol labeling for cysteine residues, while the acid-labile t-butyl ester facilitates controlled deprotection, making it ideal for targeted synthesis and creating stable, functional conjugates in biomedical research.
Storage	Store at -20°C.

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