Product Information

Hydroxyl/t-Butyl protected carboxyl PEG reagent, Hydroxy-PEG2-CH₂CO₂tBu, Purity 95%

Cat. No.: X24-03-YW0659

Size: 500 mg; 1 g; 5 g **MDL:** MFCD25959245

CAS Number: 149299-82-1

PubChem CID: 19780618

Synonym: 149299-82-1; Hydroxy-PEG2-CH₂CO₂tBu; *Tert*-Butyl

2-(2-(2-hydroxyethoxy)ethoxy)acetate; Hydroxy-PEG2-t-Butyl acetate;

HO-PEG2-CH₂COOtBu

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

Product Information	on
Description	Hydroxy-PEG2-CH ₂ CO ₂ tBu is a PEG linker featuring a terminal hydroxyl group and a <i>t</i> -butyl-protected carboxyl group. The PEG2 spacer enhances solubility in aqueous environments, while the hydroxyl group allows versatile functionalization. The t-butyl group provides acid-labile protection for controlled carboxyl activation.
Molecular Weight	220.3
Molecular Formula	$C_{10}H_{20}O_5$
Functional Group 1	Hydroxyl
Functional Group 2	t-Butyl protected carboxyl
Reactive Group 1	Acid
Reactive Group 2	Nucleophile
IUPAC Name	Tert-butyl 2-[2-(2-hydroxyethoxy)ethoxy]acetate
InChi	InChI=1S/C10H20O5/c1-10(2,3)15-9(12)8-14-7-6-13-5-4-11/h11H,4-8H2,1-3H3
InChl Key	LMDJRQVQNFNFAK-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)COCCOCO
Form	Liquid
Purity	95%
Solubility	Water, DMSO, DCM, DMF
Identity	Confirmed by NMR.

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Applications	Hydroxy-PEG2-CH ₂ CO ₂ tBu is used in bioconjugation, drug delivery, and material synthesis. The
	hydroxyl group supports further derivatization, while the t-butyl ester ensures precise activation of
	the carboxyl group under acidic conditions, making it ideal for creating hydrophilic linkers and
	functional materials.
Storage	Store at -20°C.