

Product Information

Hydroxyl/*t*-Butyl ester PEG reagent, Hydroxy-PEG6-*t*-butyl ester, Purity 98%

Cat. No.: X24-03-YW0679

Size: 250 mg; 500 mg; 1 g; 5 g

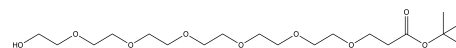
MDL: MFCD13185017

CAS Number: 361189-64-2

PubChem CID: 51341046

Synonym: 361189-64-2; Hydroxy-PEG6-*t*-butyl ester; Hydroxy-PEG6-Boc; PEG7-*t*-butyl ester

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



Product Information

Description	Hydroxy-PEG6- <i>t</i> -butyl ester is a PEG linker featuring a terminal hydroxyl group and a <i>t</i> -butyl-protected carboxyl group. The PEG6 chain enhances hydrophilicity and solubility in aqueous environments. The hydroxyl group allows for versatile chemical modifications, while the <i>t</i> -butyl ester provides acid-labile protection for controlled carboxylic acid activation.
Molecular Weight	410.5
Molecular Formula	C ₁₉ H ₃₈ O ₉
Functional Group 1	Hydroxyl
Functional Group 2	<i>t</i> -Butyl ester
Reactive Group 1	Acid
Reactive Group 2	Nucleophile
IUPAC Name	<i>Tert</i> -butyl 3-[2-[2-[2-[2-[2-(2-hydroxyethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C19H38O9/c1-19(2,3)28-18(21)4-6-22-8-10-24-12-14-26-16-17-27-15-13-25-11-9-23-7-5-20/h20H,4-17H2,1-3H3
InChI Key	VGGDPFAYSOSIOK-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)CCOCCOCCOCCOCCOCCOCCO
Form	Colorless liquid
Purity	98%
Identity	Confirmed by NMR.
Applications	Hydroxy-PEG6- <i>t</i> -butyl ester is widely used in drug delivery, bioconjugation, and polymer synthesis. Its hydroxyl group supports further functionalization, and the <i>t</i> -butyl ester allows precise activation of

the carboxyl group under acidic conditions, making it ideal for creating hydrophilic linkers and advanced materials in biomedical research.

Storage	Store at -20°C.
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