

## Product Information

### Sulfonic acid/*t*-Butyl ester PEG reagent, *t*-Butoxycarbonyl-PEG5-sulfonic acid, Purity 95%

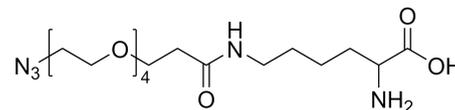
**Cat. No.:** X24-10-WXX445

**Size:** 100 mg; 250 mg; 500 mg; 1 g

**CAS Number:** 1817735-28-6

**PubChem CID:** 12415691

**Synonym:** 1817735-28-6; *t*-Butoxycarbonyl-PEG5-sulfonic acid; Butoxycarbonyl-PEG5-sulfonic acid; T-BUTOXYCARBONYL-PEG5-SULFONICACID; 2-[2-[2-[2-[3-[(2-methylpropan-2-yl)oxy]-3-oxopropoxy]ethoxy]ethoxy]ethoxy]ethanesulfonic acid; 18-(tert-butoxy)-18-oxo-3,6,9,12,15-pentaoxaoctadecane-1-sulfonic acid; DTXSID901137938; AKOS040741490



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

#### Product Information

<b>Description</b>	<i>t</i> -Butoxycarbonyl-PEG5-sulfonic acid is a reagent grade PEG linker with a <i>t</i> -butyl protecting group and a sulfonic acid moiety. The PEG spacer increases water solubility.
<b>Molecular Weight</b>	430.5
<b>Molecular Formula</b>	C <sub>17</sub> H <sub>34</sub> O <sub>10</sub> S
<b>Functional Group 1</b>	Sulfonic Acid
<b>Functional Group 2</b>	<i>t</i> -Butyl ester
<b>Functional Group 3</b>	None
<b>Reactive Group 1</b>	Amine
<b>IUPAC Name</b>	2-[2-[2-[2-[3-[(2-methylpropan-2-yl)oxy]-3-oxopropoxy]ethoxy]ethoxy]ethoxy]ethanesulfonic acid
<b>InChI</b>	InChI=1S/C17H34O10S/c1-17(2,3)27-16(18)4-5-22-6-7-23-8-9-24-10-11-25-12-13-26-14-15-28(19,20)21/h4-15H2,1-3H3,(H,19,20,21)
<b>InChI Key</b>	PJMKLAIQHRSRPRW-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CC(C)(C)OC(=O)CCOCCOCCOCCOCCOCCS(=O)(=O)O
<b>Form</b>	Liquid crystal
<b>Purity</b>	95%
<b>Solubility</b>	Water, DMSO, DCM, DMF

<b>Identity</b>	Confirmed by NMR.
<b>Applications</b>	<i>t</i> -Butoxycarbonyl-PEG5-sulfonic acid is utilized for its ability to improve the pharmacological properties of therapeutic agents by increasing their solubility and bioavailability, especially in targeted drug delivery systems.
<b>Storage</b>	Store at -20°C.

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