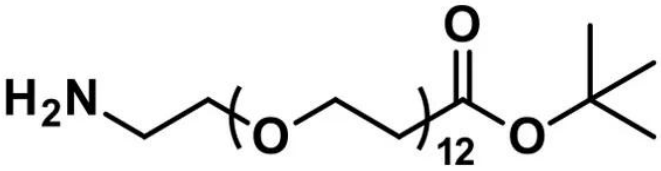
www.vectorlabs.com
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AMINO-DPEG®$_{12}$-T-BUTYL ESTER

SKU: QBD-10281



DESCRIPTION

Amino-dPEG®12–t-butyl ester, product number QBD-10281, is a carbonyl- and amine-reactive, single molecular weight polyethylene glycol (PEG) product with a discrete chain length. The compound consists of a primary amine and a propionic acid tert-butyl ester on opposite ends of a discrete PEG (dPEG®) spacer. The amine end of the molecule reacts readily with aldehydes and ketones to form reducible Schiff bases and with carboxylic acids and their active esters (NHS, TFP) to form amide bonds. A tert-butyl ester group protects the propionic acid end of the product. The ester is cleavable with trifluoroacetic acid (TFA), leaving the propionic acid moiety free to react with amines either by activation with an acylation reagent or by direct coupling to an amine using a carbodiimide.

This product can be used in peptide synthesis, protein modification, other forms of supramolecular construction, and as a novel, monoprotected heterobifunctional crosslinker. The dPEG® spacer is not a dispersed polymer with a range of chain lengths and molecular weights but a very high purity, single molecular weight PEG chain with a discrete chain length. One of the advantages of dPEG® compounds is that analyses of conjugates made with dPEG® linkers are simplified since only one chain length and molecular weight of PEG is present. Moreover, our amphiphilic dPEG® products impart water solubility to conjugates made with them, often improving the performance of the conjugate compared to the parent molecule.

Published applications for Amino-dPEG®12–t-butyl ester include the following:
Development of anti-fouling surfaces;
Creation of targeted NIR and non-peptidic SPECT imaging products to act as guides for surgical removal of cancerous growths; and,

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Creation of highly specific crosslinkers for the development of antibody-drug conjugates (ADCs).

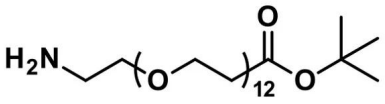
SPECIFICATIONS

CAS Number	872340-65-3
Molecular Weight	673.83; single compound
Chemical Formula	$C_{31}H_{63}NO_{14}$
Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, DMAC, or DMSO.
Spacers	dPEG® Spacer is 40 atoms and 46.5 Å
Storage Instructions	-20°C; Always let come to room temperature before opening; be careful to limit exposure to moisture and restore under an inert atmosphere; stock solutions can be prepared with dry solvent and kept for several days (freeze when not in use). dPEG® pegylation compounds are generally hygroscopic and should be treated as such. This will be less noticeable with liquids, but the solids will become tacky and difficult to manipulate, if care is not taken to minimize air exposure.
Shipping Instructions	Ambient

DOCUMENTS

- Safety Data Sheet
- Datasheet

GALLERY IMAGES



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