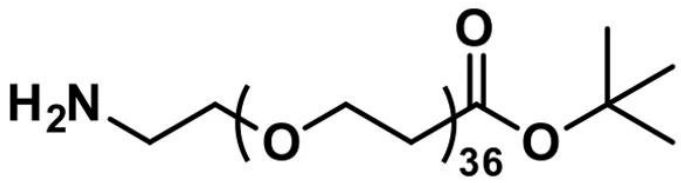
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

AMINO-DPEG®$_{36}$-T-BUTYL ESTER

SKU: QBD-10901



DESCRIPTION

Amino-dPEG®36–t-butyl ester, product number QBD-10901, is a long (111 atoms, 132.7 Å), heterobifunctional, monodisperse polyethylene glycol (PEG) linker containing a single molecular weight, discrete length PEG (dPEG®) chain. One end of the dPEG® chain terminates with a carbonyl-reactive primary amine. The opposite end terminates with an amine-reactive, tert-butyl-ester-protected propionic acid. The t-butyl ester protecting group cleaves easily with trifluoroacetic acid (TFA), exposing a propionic acid moiety that forms amide bonds with primary amines upon activation. This compound is useful for supramolecular construction and building novel crosslinkers. Conjugates modified with QBD-10901 have improved water solubility and greater hydrodynamic volume.

The amine end of the molecule reacts with activated carboxylic acid esters (for example, N-hydroxysuccinimidyl or tetrafluorophenyl esters) to form an amide bond. Also, carboxylic acids can couple to the amine end of Amino-dPEG®36-t-butyl ester using a carbodiimide such as EDC, with or without an acylating agent such as N-hydroxysuccinimide (NHS). After working up the reaction to remove unreacted components and isolate the intermediate, trifluoroacetic acid is used to remove the tert-butyl ester and expose the propionic acid end group. The exposed carboxylic acid can then react further. For example, activation as the NHS or TFP ester is possible. Also, the acid can be coupled directly to an amine as described above.

SPECIFICATIONS

CAS Number	2899265-07-5

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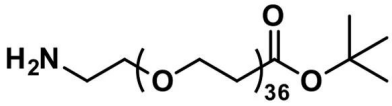
Molecular Weight	1731.09; single compound
Chemical Formula	$C_{79}H_{159}NO_{38}$
Purity	> 98%
Unit Size	100mg, 1000mg
Solubility	Methylene chloride, DMAC, or DMSO.
Spacers	dPEG® Spacer is 111 atoms and 132.7 Å
Storage Instructions	-20°C; Always let come to room temperature before opening; be careful 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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