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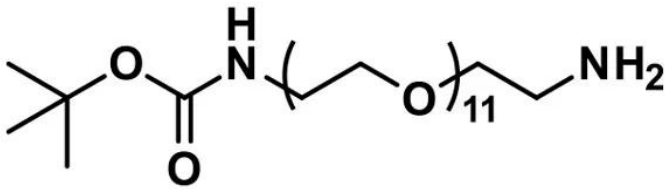
T-BOC-N-AMIDO-DPEG®₁₁-AMINE

SKU: QBD-10172



DESCRIPTION

t-boc-N-amido-dPEG®11-amine, product number QBD-10172, is a diamine-functionalized, homobifunctional, monodisperse PEGylation reagent with one of the two primary amine-reactive groups protected as a tert-butyl carbamate. Both ends of the molecule react with carboxylic acids, aldehydes, and ketones. Carboxylic acids react with this product to form amide bonds, while reactions with aldehydes and ketones form Schiff bases that are reducible to secondary amines. The mono-protected end of the molecule gives the user greater control over when and where to react the primary amine following deprotection.

The free amine end of the molecule reacts with carboxylic acids or their active esters. With carboxylic acids, a carbodiimide such as EDC directly couples the amine to the acid, forming the amide. With active esters (for example, NHS or TFP esters) of carboxylic acids, the reaction runs in organic solvents or aqueous buffers using conventional chemistry. After the free amine has reacted, the protected end of the molecule is deprotected with trifluoroacetic acid (TFA) or some other suitable organic acid and then coupled to a carboxylate or active ester as above.

Scientific publications using t-boc-N-amido-dPEG®11-amine describe the following uses for this compound:
Immobilization of enzymes and antibodies;
Construction of supramolecular assemblies;
Engineering of quantum dots; and,
Development of biomolecular sensors.

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

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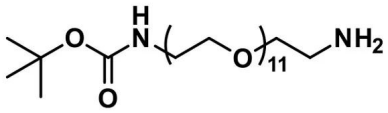
SPECIFICATIONS

CAS Number	198227-38-2
Molecular Weight	644.79; single compound
Chemical Formula	$C_{29}H_{60}N_2O_{13}$
Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC, DMSO or water.
Spacers	dPEG® Spacer is 37 atoms and 42.8 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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