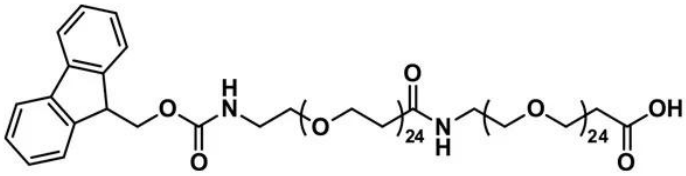
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

FMOC-N-AMIDO-DPEG®24-AMIDO-DPEG®24-ACID

SKU: QBD-11301



DESCRIPTION

Fmoc-N-amido-dPEG®24-amido-dPEG®24-acid, product number QBD-11301, is one of a broad line of products designed for use in peptide synthesis. The long (152 atoms), flexible, discrete PEG (dPEG®) spacer is functionalized with a propionic acid group on one end and Fmoc-protected amine on the other. The spacer length is effectively forty-eight ethylene oxide units (i.e., PEG48). The compound can be added to the N-terminus of a growing peptide chain or to a primary-amine-functionalized side chain of an amino acid such as lysine. The non-immunogenic dPEG®24-amido-dPEG®24 spacer increases the hydrodynamic volume and imparts water solubility to the conjugate molecule.

QBD-11301 permits our customers to insert a dPEG® spacer into a peptide chain using familiar Fmoc chemistry using solid phase or solution phase chemistry. However, due to the spacer's length, it likely will work better in solution-phase syntheses. The dPEG® compound can be inserted at either end of the peptide chain or in the middle of two amino acid sequences to provide a flexible linker between distinct functional peptides. Additionally, the dPEG® spacer can be used to provide spacing in a synthetic construct where steric hindrance is a problem. The amphiphilic nature of dPEG® products means that the construct gains hydrodynamic volume and water solubility while remaining soluble in organic solvent. The Fmoc protecting group is removed easily with a solution of piperidine in N,N-dimethylformamide (DMF).

SPECIFICATIONS

CAS Number	N/A

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

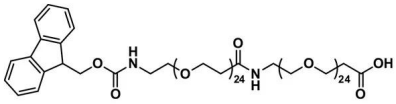
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Molecular Weight	2496.96; single compound
Chemical Formula	$C_{117}H_{214}N_2O_{53}$
Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene Chloride, DMAC or Acetonitrile.
Spacers	dPEG® Spacer is 152 atoms and 178.7 Å
Storage Instructions	-20°C; 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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