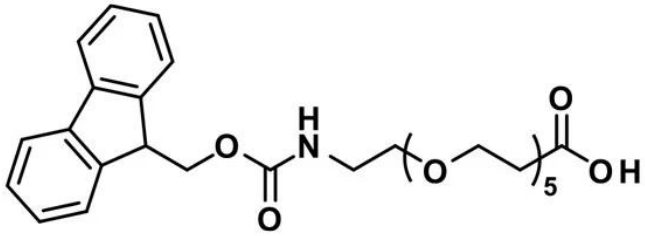
www.vectorlabs.com
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FMOC-N-AMIDO-DPEG®$_5$-ACID

SKU: QBD-10053



DESCRIPTION

Fmoc-N-amido-dPEG®5-acid, product number QBD-10053, is one of a broad line of products designed for use in peptide synthesis. The short (19 atoms), discrete PEG (dPEG®) spacer is functionalized with a propionic acid group on one end and Fmoc-protected amine on the other. The product 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 dPEG®5 spacer imparts water solubility to the peptide to which it is conjugated.

QBD-10053 permits our customers to insert a dPEG® spacer into a peptide chain using familiar Fmoc chemistry using solid phase or solution phase chemistry. 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 removes easily with a solution of piperidine in N,N-dimethylformamide (DMF).

SPECIFICATIONS

CAS Number	882847-32-7
Molecular Weight	531.59; single compound

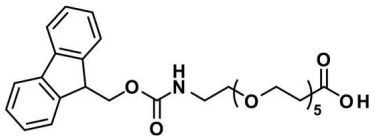
For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

Chemical Formula	$C_{28}H_{37}NO_9$
Purity	> 98%
Unit Size	1000 mg
Solubility	Methylene chloride, Acetontrile, DMAC or DMSO.
Spacers	dPEG® Spacer is 19 atoms and 21.6 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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