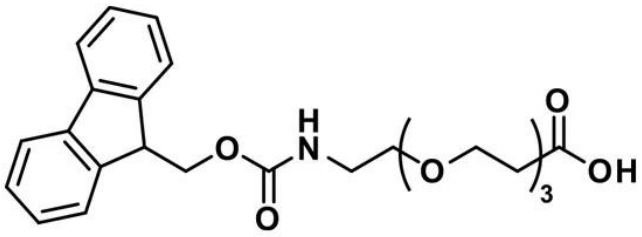
www.vectorlabs.com
e: customerservice@vectorlabs.com
t: (650) 697-3600

FMOC-N-AMIDO-DPEG®₃-ACID

SKU: QBD-10033



Description

Fmoc-N-amido-dPEG®3-acid, product number QBD-10033, is one of a broad line of products designed for use in peptide synthesis. The short (13 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®3 spacer imparts water solubility to the peptide to which it is conjugated.

QBD-10033 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

Unit Size	1000 mg
Molecular Weight	443.49; single compound
Chemical formula	$C_{24}H_{29}NO_7$
CAS	867062-95-1
Purity	> 98%
Spacers	dPEG® Spacer is 13 atoms and 14.4 Å

For research use only. Not intended for animal or human therapeutic or diagnostic use.

Shipping	Ambient
Typical solubility properties (for additional information contact Customer Support)	Methylene chloride, Acetontrile, DMAC or DMSO.
Storage and handling	-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.
