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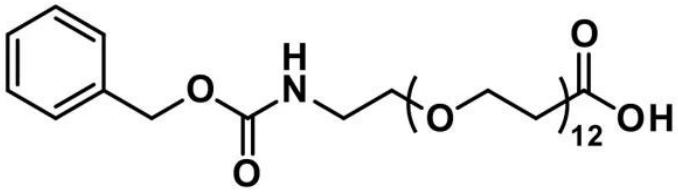
CBZ-N-AMIDO-DPEG®$_{12}$-ACID

SKU: QBD-10286



CBZ-N-amido-dPEG®12-acid, product number QBD-10286, is a benzyl carbamate (Cbz) N-protected amino-dPEG®-acid that provides a medium-length (40 atoms), single molecular weight discrete PEG (dPEG®) spacer. It can be used in peptide synthesis to modify the side chain of lysine and in other forms of supramolecular construction. The Cbz protecting group is stable to acidic and basic conditions and is most easily removed using palladium black or palladium on carbon with hydrogen. This makes Cbz removal orthogonal to most other peptide synthesis deprotection reactions.

CBZ-N-amido-dPEG®12-acid works well in solution-phase synthesis. Carbodiimide activation, with or without an acylating agent, permits conjugation of the acid terminus of the dPEG® product to free amines. Other synthetic processes (e.g., surface modification, supramolecular construction) requiring the attachment or insertion of a medium-length PEG linker or spacer can employ CBZ-N-amido-dPEG®12-acid profitably also.

Specifications

Unit Size	100 mg, 1000 mg
Molecular Weight	751.86; single compound
Chemical formula	$C_{35}H_{61}NO_{16}$
CAS	1334177-88-6
Purity	> 98%
Spacers	dPEG® Spacer is 40 atoms and 46.5 Å
Shipping	Ambient

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

Typical solubility properties (for additional information contact Customer Support)	Methylene chloride, 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.
