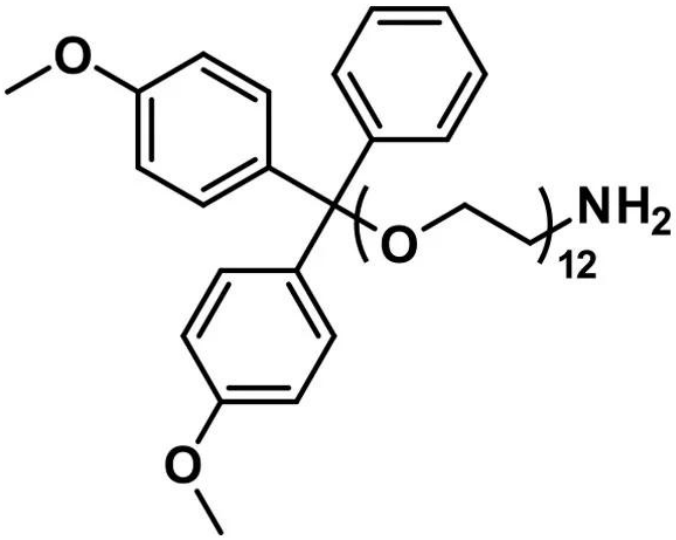
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

AMINO-DPEG®$_{12}$-ODMT

SKU: QBD-10342



DESCRIPTION

Amino-dPEG®12-ODMT, product number QBD-10342, is designed for nucleic acid modification in applications where PEGylation improves the therapeutic or diagnostic profile. It contains a medium-length (38 atoms), single molecular weight, discrete PEG (dPEG®) linker with a free primary amine on one end and dimethoxytrityl-protected oxygen on the other. Following oligonucleotide synthesis, amino-dPEG®12-ODMT can be conjugated to phosphate groups on either end of the chain using water-soluble 1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide (EDC) chemistry. The 4,4′-dimethoxytrityl group can then be removed using a weak acid, such as dilute dichloroacetic acid, leaving the dPEG® linker terminated with a hydroxy group. Studies have shown that 3′ end capping (including PEGylation) helps the oligonucleotide chain resist nuclease degradation, while 5′ end PEGylation reduces renal clearance of the aptamer.

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

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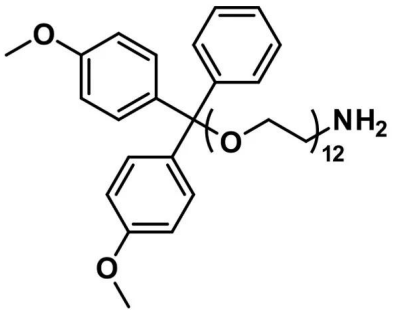
SPECIFICATIONS

CAS Number	879571-23-0
Molecular Weight	848.03; single compound
Chemical Formula	$C_{45}H_{69}NO_{14}$
Purity	> 97%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, DMAC, or DMSO.
Spacers	dPEG® Spacer is 38 atoms and 43.9 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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