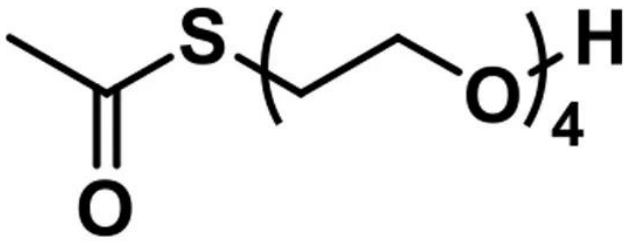
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

S-ACETYL-DPEG®₄-OH

SKU: QBD-10156



DESCRIPTION

S-acetyl-dPEG®4-OH, product number QBD-10156, contains an acetyl-protected thiol on a short, hydroxy-terminated, discrete polyethylene glycol (dPEG®) linker. This product is designed for the thiolation of biomolecules.

Bioconjugation frequently employs thiolation because the reactions to install thiol groups on molecules or to react with molecules containing sulfhydryl groups are relatively simple and often chemoselective. The thioacetyl group is intended to install an acetyl-protected thiol onto biomolecules. While installing a protected thiol through a reaction between a carboxylic acid and a primary amine is widely popular in bioconjugation technology, it is not always possible or feasible. S-acetyl-dPEG®4-OH permits the installation of a protected thiol through a short, hydroxy-terminated discrete PEG® linker that can be installed by the reaction of hydroxy group with an activated carboxylic acid ester or isothiocyanate group. Hydroxylamine hydrochloride (CAS number 5470-11-1) easily removes the acetyl group that protects the thiol, thus exposing the sulfhydryl for reaction. One application for S-acetyl-dPEG®4-OH is the modification of nucleic acids using phosphoramidite chemistry.

SPECIFICATIONS

CAS Number	223611-42-5

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

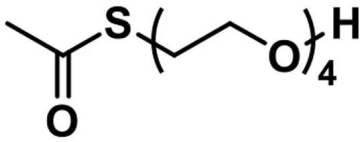
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Molecular Weight	252.33; single compound
Chemical Formula	$C_{10}H_{20}O_5S$
Purity	> 98%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, Acetonitrile, DMAC or DMSO.
Spacers	dPEG® Spacer is 13 atoms and 14.6 Å
Storage Instructions	-20°C; Always 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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