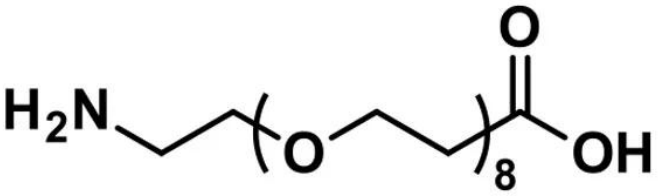
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

# AMINO-DPEG®₈-ACID

**SKU:** QBD-10277




## DESCRIPTION

Amino-dPEG®8-acid, product number QBD-10277, is an amino PEG acid. A primary amine and propionic acid terminate the ends of the polyethylene glycol (PEG) spacer. The single molecular weight PEG spacer is discrete (Đ = 1) and highly hydrophilic. Consequently, it increases the hydrodynamic volume and imparts water solubility to conjugates that incorporate it.

Both ends of the molecule are available for conjugation. Conjugation of only one end of the dPEG® spacer may modify the overall charge of the conjugate. Many different types of coupling reactions are effective for this purpose. However, care should be taken not to use single-step EDC coupling, as this will polymerize the dPEG® product.

Scientific publications report the use of Amino-dPEG®8-acid in modifying diverse compounds including antibodies, enzymes, carbon nanotubes, and SU-8 (an epoxy-based negative photoresist) layered atop a quartz surface. In each case, amino-dPEG®8-acid was shown to improve the performance of the conjugate compared to the unmodified material. The improved conjugate performance occurred through increased signal-to-noise ratio, reduced non-specific binding, or both.

## SPECIFICATIONS

| | |
|---|---|
| **CAS Number** | 756526-04-2 |
| **Molecular Weight** | 441.51; single compound |

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

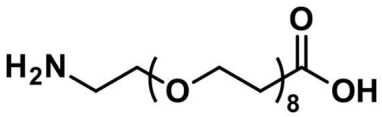
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

| | |
|---|---|
| **Chemical Formula** | $C_{19}H_{39}NO_{10}$ |
| **Purity** | > 98% |
| **Unit Size** | 100 mg, 1000 mg |
| **Solubility** | DMAC or DMSO or water. |
| **Spacers** | dPEG® Spacer is 28 atoms and 32.2 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




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