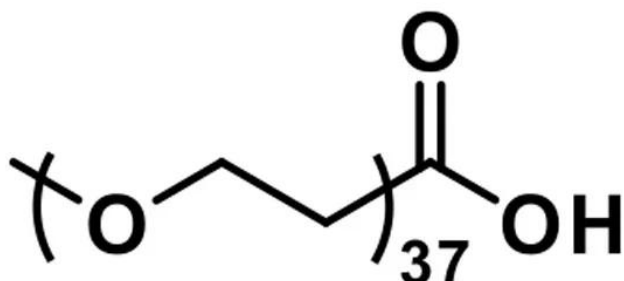


M-DPEG®₃₇-ACID

SKU: QBD-10909



"m-dPEG®₃₇-acid, product number QBD-10909, is a long (112 atoms, 133.9 Å), methyl-capped, discrete chain length polyethylene glycol (dPEG®) spacer that terminates in a propionic acid group. The terminal propionic acid moiety can be coupled directly to free amines using EDC or another carbodiimide. Alternatively, the reactive end can be converted into an active ester that can then be conjugated to free amines. N-hydroxysuccinimide (NHS), 2,3,5,6-tetrafluorophenol (TFP), and 2,3,4,5,6-pentafluorophenol (PFP) typically are used for this purpose.

m-dPEG®₃₇-acid can modify amine-functionalized surfaces (carbon nanotubes, other nanoparticles, quantum dots, etc.) or free amines on biomolecules. When used to coat surfaces or modify biomolecules, m-dPEG®₃₇-acid reduces or eliminates non-specific binding, increases the hydrodynamic volume and water solubility of the conjugate molecule. Please note that modifying the surface amines of biomolecules with this uncharged, methyl-capped dPEG® spacer may alter the overall charge of the resulting conjugates."

Specifications

| | |
|-------------------------|--|
| Unit Size | 100mg, 1000mg |
| Molecular Weight | 1690.00; single compound |
| Chemical formula | C ₇₆ H ₁₅₂ O ₃₉ |
| CAS | 117786-94-4 |
| Purity | > 97% |
| Spacers | dPEG® Spacer is 112 atoms and 133.9 Å |

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

**Typical solubility
properties (for
additional information
contact Customer
Support)**

Methylene chloride, Acetonitrile, DMAC, DMSO or water.

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.

Shipping

Ambient

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