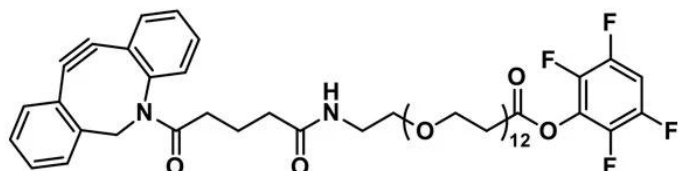


DBCO-dPEG®₁₂-TFP ESTER

SKU: QBD-11366



DBCO-dPEG®₁₂-TFP ester, product number QBD-11366, is a heterobifunctional, bioorthogonal crosslinker designed to join azides and amines across a medium-length (40 atoms, 46.3 Å), flexible, hydrophilic, single molecular weight, discrete PEG (dPEG®) spacer. The tetrafluorophenyl (TFP) ester reacts specifically with free amines to form amide bonds; the optimum reaction pH is 7.5 - 8.0. The dibenzylcyclooctyne (DBCO) moiety selectively forms triazole linkages with azides via a click chemistry reaction known as strain-promoted azide-alkyne cycloaddition (SPAAC), also known as copper-free click chemistry. The amphiphilic dPEG® linker increases conjugates' hydrodynamic volumes, and it can be used to create space in sterically crowded supramolecular constructs.

Specifications

Unit Size	25 mg, 100 mg, 500 mg
Molecular Weight	1067.12; single compound
Chemical formula	C ₅₃ H ₇₀ F ₄ N ₂ O ₁₆
CAS	N/A
Purity	> 98%
Spacers	dPEG® Spacer is 40 atoms and 46.3 Å
Shipping	Ambient
Typical solubility properties (for additional information contact Customer Support)	Methylene Chloride, DMSO, DMAC, Methanol, DMF, or Acetonitrile.

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

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.

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