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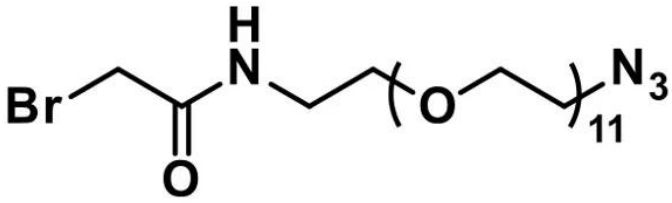
BROMOACETAMIDO-DPEG®$_{11}$-AZIDE

SKU: QBD-11204



Bromoacetamido-dPEG®11-azide, product number QBD-11204, crosslinks free thiols with click chemistry alkyne partners across a medium-length (39 atoms, 46.0 Å) single molecular weight, discrete PEG (dPEG®) bridge.

The medium-length dPEG® linker is amphiphilic and adds hydrodynamic volume and water solubility to conjugate molecules. The flexible, non-immunogenic spacer can reduce or eliminate renal clearance and help shield conjugates from opsonization through the increased hydrodynamic volume the dPEG® linker imparts.

The bromoacetate moiety reacts chemoselectively with free thiols at pH >8.0. The bromoacetate group is an alternative to the maleimide group and is used in situations where the target molecule needs to be at a high pH. The azide group reacts with a suitable alkyne partner via metal-catalyzed (Cu, Ru) or strain-promoted (copper-free) click chemistry. Moreover, Bromoacetamido-dPEG®11-azide is stable, unlike MAL-PEG-azide constructs, which are somewhat unstable.

Specifications

Unit Size	100 mg, 1000 mg
Molecular Weight	691.61; single compound
Chemical formula	$C_{26}H_{51}BrN_4O_{12}$
CAS	N/A
Purity	> 98%
Spacers	dPEG® Spacer is 39 atoms and 46.0 Å
Shipping	Ambient

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, DMAC, DMF, and DMSO
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.
