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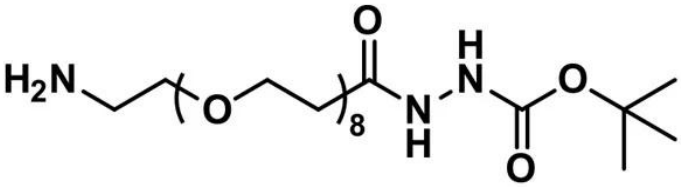
# AMINO-DPEG®₈-T-BOC-HYDRAZIDE

**SKU:** QBD-10957



Amino-dPEG®8-t-boc hydrazide, product number QBD-10957, is a useful molecular modification and bioconjugation reagent consisting of a free, primary amine on one end of a medium-length (30 atoms, 35.9 Å) single molecular weight, discrete-chain-length polyethylene glycol (dPEG®) linker and a Boc-protected hydrazide group on the other end. The free amine reacts with carboxylic acids and their active esters to form a stable amide bond. Following the removal of the Boc protecting group, the hydrazide can be reacted with an aldehyde (for example, formed from periodate oxidation of carbohydrates) at pH 5 - 7 to form a hydrazone bond. Hydrazone bonds are acid labile but otherwise stable, thus allowing the conjugate or supramolecular construct to degrade under acidic conditions such as in lysosomes or the acidic extracellular microenvironments at inflammation or tumor metastasis sites. The single molecular weight, discrete PEG (dPEG®) crossbridge is water-soluble and non-immunogenic, and it adds flexibility and increases the hydrodynamic volume of conjugates and supramolecular constructs that incorporate it.

## Specifications

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| **Unit Size** | 100mg, 1000mg |
| **Molecular Weight** | 555.66; single compound |
| **Chemical formula** | $C_{24}H_{49}N_3O_{11}$ |
| **CAS** | 1334169-96-8 |
| **Purity** | > 98% |
| **Spacers** | dPEG® Spacer is 30 atoms and 35.9 Å |
| **Shipping** | Ambient |

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

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| **Typical solubility properties (for additional information contact Customer Support)** | Methylene chloride, DMAC or 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. |

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