

## Azide-PEG2-carboxylic acid

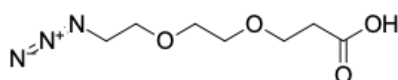
<http://www.lumiprobe.com/p/azide-peg2-carboxylic-acid>

Azide-PEG2-carboxylic acid is a bifunctional linker with terminal carboxyl and azido groups.

This molecule is hydrophilic and suitable for the synthesis of water-soluble conjugates.

The azide group can enter into [3+2]-dipolar cycloaddition reactions with biomolecules containing an alkyne moiety (click chemistry reactions), and the carboxyl group can be activated and react with various amines.

The repertoire of the synthesized bioconjugates can be very broad; for example, different antibody-drug conjugates (ADC) can be generated using this approach. Also, the conjugation of a PEG linker to a molecule can increase its stability and solubility in water, as well as reduce the immunogenicity.



**Structure of Azide-PEG2-carboxylic acid**

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### General properties

- Appearance: yellow liquid
- Molecular weight: 203.20
- CAS number: 1312309-63-9
- Molecular formula: C<sub>7</sub>H<sub>13</sub>N<sub>3</sub>O<sub>4</sub>
- IUPAC name: 3-[2-(2-Azidoethoxy)ethoxy]propanoic acid
- Solubility: good in water and most organic solvents
- Quality control: NMR <sup>1</sup>H and HPLC-MS (95+%)
- Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
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