

3-Azidopropylamine

<http://www.lumiprobe.com/p/3-azidopropylamine-88192-19-2>

Azidopropylamine is a water-soluble, short bifunctional crosslinker with azide and amine groups. The primary amine group possesses high reactivity towards activated ester derivatives (NHS, etc.). The azide group can be coupled with alkynes via copper-catalyzed click reaction (CuAAC). Both reactions are orthogonal and can be carried out independently.

Azidopropylamine is used to introduce an azide fragment into molecules containing carboxyl groups by activating them with carbodiimide and their further interaction with the amine group of azidopropylamine. Azidopropylamine can also be used in peptide synthesis to modify peptides with activated HBTU and HOBt carboxyl groups.

A chemically stable solid [hydrochloride form of azidopropylamine](#) is also available. It is ideal as an azidopropylamine bulk for applications when a large amount of reagent is needed.

General properties

Appearance: colorless liquid

Molecular weight: 100.12

CAS number: 88192-19-2

Molecular formula: C₃H₈N₄

IUPAC name: 3-Azido-1-propanamine

Solubility: soluble in water, DMSO, DMF, DCM, THF, chloroform

Quality control: NMR ¹H, GC-MS (95%)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks.