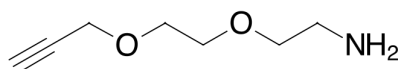


## Alkyne-PEG2-amine

<http://www.lumiprobe.com/p/alkyne-peg2-amine-944561-44-8>

PEGs are useful hydrophilic linkers for bioconjugation. Diethyleneglycol, or PEG2, is a short PEG linker. This bifunctional molecule with an amino group that can be engaged in acylation reaction with anhydrides and activated esters, reductive amination with aldehydes and ketones, and alkylation with halides and epoxides, and other reactions. Its terminal alkyne group reacts with azides in copper-catalyzed CuAAC reaction and palladium-catalyzed Sonogashira coupling with aryl- and vinyl halides and triflates.



### Structure of Alkyne-PEG2-Amine

#### General properties

Appearance: colorless to yellow liquid

Molecular weight: 143.18

CAS number: 944561-44-8

Molecular formula: C<sub>7</sub>H<sub>13</sub>NO<sub>2</sub>

IUPAC name: 2-[2-(2-propynyloxy)ethoxy]ethylamine

Solubility: soluble in water, polar organic solvents

Quality control: NMR <sup>1</sup>H, GC-MS (95%)

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