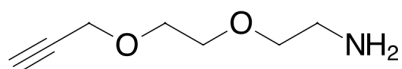


Alkyne-PEG2-amine

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

PEGs are useful hydrophilic linkers for the bioconjugation. Diethyleneglycol, or PEG2, is a short PEG linker. This bifunctional molecule has an amino group that can be engaged in acylation reaction with anhydrides and activated esters, reductive amination with aldehydes and ketones, and alkylation with halogenides and epoxides, just to list a few 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 ₇ H ₁₃ NO ₂ |
| IUPAC name: | 2-[2-(2-propynyloxy)ethoxy]ethylamine |
| Solubility: | soluble in water, polar organic solvents |
| Quality control: | NMR ¹ H, GC-MS (95%) |