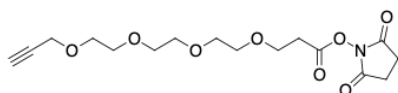


## Alkyne-PEG3-NHS ester

<http://www.lumiprobe.com/p/alkyne-peg3-nhs-ester>

Alkyne-PEG3-NHS ester is a bifunctional molecule containing NHS ester and alkyne functional groups. NHS ester group is used for the labeling of amine groups, like lysine and terminal NH<sub>2</sub>, in proteins and peptides. The terminal alkyne group is useful for copper-catalyzed click chemistry (CuAAC) or Sonogashira coupling.

PEG3 is a hydrophilic linker providing a good separation between the parts of the conjugate.



**Structure of Alkyne-PEG3-NHS ester**

### General properties

Appearance: colorless to yellowish oil

Molecular weight: 357.36

CAS number: 1428629-70-2

Molecular formula: C<sub>16</sub>H<sub>23</sub>NO<sub>8</sub>

IUPAC name: 2,5-Dioxo-1-pyrrolidinyl 3-(2-{2-[2-(2-propynyloxy)ethoxy]ethoxy}ethoxy)propionate

Solubility: good in water and polar organic solvents

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

Storage conditions: Storage: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

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