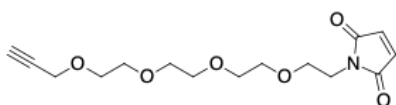

Alkyne-PEG4-maleimide

<http://www.lumiprobe.com/p/alkyne-peg4-maleimide>

When proteins or other sensitive biomolecules need to be conjugated, polyethyleneglycol (PEG) linkers are a great choice. They provide hydrophilicity and maintain separation between conjugated molecules. This linker based on PEG4, has length of 14Å (1.4 nm). Heterobifunctional linkers carrying different reactive groups can be used to prepare cross-conjugates between different molecules.

Maleimide functional group is especially useful, because they can label proteins site specifically. Most proteins have only limited number of cysteine residues that selectively react with maleimides. Alkyne group can be then conjugated with azides in a selective copper-catalyzed process, CuAAC (copper-catalyzed alkyne-azide cycloaddition).



Structure of alkyne-PEG4-maleimide

General properties

| | |
|-------------------------|--|
| Appearance: | yellow oil |
| Mass spec M+ increment: | 311.3 |
| Molecular weight: | 311.33 |
| CAS number: | 1262681-30-0 |
| Molecular formula: | C ₁₅ H ₂₁ NO ₆ |
| Solubility: | good in water, DMF, DMSO |
| Quality control: | NMR ¹ 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. |
| Legal statement: | This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products. |