

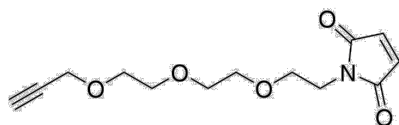
Alkyne-PEG3-maleimide

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

Polyethylene glycol derivatives with few units (in this case, 3 monomeric units) are excellent linkers for conjugation of biomolecules to run reactions in aqueous conditions and increase the hydrophilicity of the compounds resulting from conjugation.

Terminal alkynes readily react in Click Chemistry reactions with various azides in the presence of copper (I) salts, and maleimide derivatives react with thiols. This is especially relevant for proteins and peptides that contain free -SH groups.

Alkyne-PEG3-maleimide is a cross-linker that can be widely used in chemistry, biology, and related areas.



Structure of Alkyne-PEG3-maleimide

General properties

Appearance: yellow oil

Molecular weight: 267.28

CAS number: 1351974-20-3

Molecular formula: C₁₃H₁₇NO₅

IUPAC name: 1-(2-(2-(2-(prop-2-yn-1-yloxy)ethoxy)ethoxy)ethyl)-1H-pyrrole-2,5-dione

Solubility: good in water, DMF, DMSO

Quality control: NMR ¹H, HPLC-MS (95%)

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