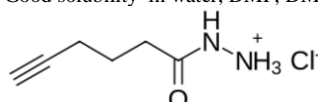


FT-AWJKP0

Alkyne – PEG – Hydrazide

Products Description

Crosslinkers for click chemistry

Product name	MW (g·mol ⁻¹)	Cat.Number 0-100mg 1-1g 2-5g	Structure example
Alkyne-PEG_n-Hydrazide Syn.: Alk-PEG _n -HYD Alkyne-PEG _{1K} -Hydrazide Alkyne-PEG _{2K} -Hydrazide Alkyne-PEG _{3,4K} -Hydrazide Alkyne-PEG _{5K} -Hydrazide Alkyne-PEG _{10K} -Hydrazide Alkyne-PEG _{20K} -Hydrazide	1000Da 2000Da 3400Da 5000Da 10000Da 20000Da	Inquire AWJKP0 BODZW0 Inquire Inquire Inquire (0-50mg) (1-1g) (2-5g)	Soluble in regular aqueous solution as well as most organic solvents;
Ask also for Alkyne-PEO _n -Hydrazide (n=2-4-6-8 ; Synthetic : monodisperse PEG, discrete PEG)			Alkyne-Hydrazide #1P3290 (MW:162.6 [+108.1]) Good solubility in water, DMF, DMSO, alcohols 

Store: at -20°C for long term. Possible at +4°C (L), protect from moisture.

Technical Information

Allow vial to warm to room temperature before opening.

- Available **spacers** (the arm separating the maleimide and the other groups) are hydrophilic PEO structure, all non-cleavable. Longer spacers PEO spacer confer not only similar advantages but hydrophilicity to the conjugates:
 - Increases water solubility of crosslinker**, *of conjugates or conjugates/ligands complexes
 - Increases stability***: reduced aggregation of conjugates
 - Increases biocompatibility***: non-immunogenic, non-toxic
 - Increases availability** *: lower steric hindrance of conjugated partners favours interactions and bioactivity.
 - Reduces non-specific binding on surfaces**
- Perfectly defined unique structure (discrete PEG)
- The hydrazide group reacts to a carbonyl group of aldehydes and ketones, that is useful to attach a terminal alkyne group. Many small natural molecules are also carbonyl compounds. Most saccharides, as well as RNAs contain 1,2-diol fragments which can be oxidized with periodate to aldehydes, which in turn react with hydrazides.
- The alkyne group can then undergo click reactions with azide.
- See information about each functional group in the technical notice XLfct.

Protocols can be found in the literature.

Contact your local distributor

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Other Information

For in vitro R&D use only

Other products using [BioSciences Innovations catalogue](#) and [e-search tool](#).

- Maleimide-PEO_n-NHS ester [#DY6611](#)
- Heterobifunctional crosslinkers: NHS-MAL reagents, i.e. [NHS-PEO-MAL AL6581](#) and SMCC [17412A](#)
- Homobifunctional crosslinkers: NHS-NHS reagents, i.e. [NHS-PEO-NHS BH8811](#) and DSS [54940A](#)
- Homobifunctional crosslinkers: MAL-MAL reagents, i.e. [MAL-PEO-MAL L7736A](#) and BMOE [L7730A](#)
- PEO Linkers & modifiers: MAL-COOH [AZ4170](#) and BMPA [43064A](#);
NHS-PEG-COOH [AN1280](#); mPEG-NHS [DZ3531](#) and others (-SH, -OH,...)
- PhotoActivable (PA) crosslinkers: SH and PA reactive i.e. SCBP [#BI1361](#),...
- Hydrazone chemistry: [Conjugation kit #BL1501](#) and crosslinkers (SANH [#BL9270](#), MHPH [#BL9401](#) SH-reactive)

Please contact Uptima – Interchim for any other information

Rev.T03E

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