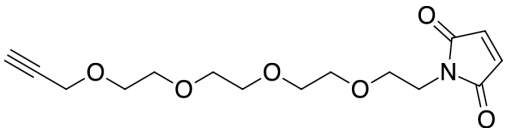
Product Data Sheet

Product Name: Alkyne-PEG4-maleimide
Cat. No.: GC59017

Chemical Properties

Cas. No.	1262681-30-0		
Formula	$C_{15}H_{21}NO_6$	M.Wt	311.33
Solubility	good in water, DMF, DMSO	Storage	Storage: 12 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

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).

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA