Product Data Sheet

Product Name: Iodo-PEG3-azide
Cat. No.: GC59014

Chemical Properties

Cas. No.	1309457-01-9		
Formula	$C_6H_{12}N_3IO_2$	M.Wt	285.08
Solubility		Storage	
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

Iodo-PEG3-Azide contains a highly reactive iodide functional group which can alkylate a variety of C-, O-, N-, S-centered and other nucleophiles.

Organic iodides are roughly an order of magnitude more active than bromides, and four orders of magnitude more active than chlorides in S_N2 reactions. This means that the same alkylation will take 10x less time with iodide than with bromide. Therefore, this molecule helps to effect very fast alkylation.

Caution: Product has not been fully validated for medical applications. For research use only.
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PEG3 is a moderately long hydrophilic linker. The azide group participates in Click chemistry reactions. It is also easily reduced to an amine group.