

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.

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