

Azide-PEG3-iodide

<http://www.lumiprobe.com/p/iodo-peg3-azide>

Azide-PEG3-iodide contains a highly reactive iodide functional group that 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.

PEG3 is a moderately long hydrophilic linker. The azide group participates in click chemistry reactions. It is also easily reduced to an amine group.

General properties

Appearance:	colorless to yellow oil
Molecular weight:	285.08
CAS number:	1309457-01-9
Molecular formula:	C ₆ H ₁₂ N ₃ IO ₂
IUPAC name:	1-(2-azidoethoxy)-2-(2-iodoethoxy)ethane
Solubility:	soluble in water, polar organic solvents
Quality control:	NMR ¹ H, GC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.