

## Azide-PEG3-iodide

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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<sub>N</sub>2 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.

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### General properties

Appearance: colorless to yellow oil

Molecular weight: 285.08

CAS number: 1309457-01-9

Molecular formula: C<sub>6</sub>H<sub>12</sub>N<sub>3</sub>IO<sub>2</sub>

IUPAC name: 1-(2-azidoethoxy)-2-(2-iodoethoxy)ethane

Solubility: soluble in water, polar organic solvents

Quality control: NMR <sup>1</sup>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.

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