Product Information

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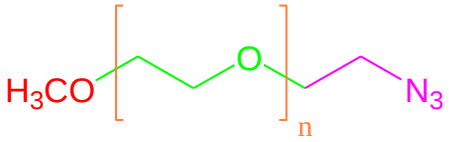
Methoxypoly(Ethylene Glycol) Azide

***Product Number*: 1101120**

Synonyms

Azide-Terminated Methoxypoly(Ethylene Glycol)

mPEG Azide



Specifications

CAS Number: 89485-61-0

M.W. (Repeat Unit): 1,900 - 2000 $g.mol^{-1}$

Appearance (Form): Powder

Appearance (Color): White to Faint Yellow

Store: Room Temperature

Proton NMR Spectrum: Conforms to Structure

Substitution: ≥ 95 %

Solubility (Water): Soluble

Solubility (Turbidity): Clear

Description

Methoxypoly(Ethylene Glycol) Azide (mPEG azide) is a synthetic polymer and widely used in biomedical research due to its biocompatibility. The mPEG azide shows high selectivity in linear click chemistry for pegylation of alkynes under simple and rapid reaction conditions even in aqueous environment. The azide group of mPEG azide can be reduced to amine by hydrogenolysis.

Applications

Methoxypoly(Ethylene Glycol) Azide can be used to enhance the solubility of hydrophobic compounds. It is also employed in drug delivery for cancer to increase serum half-life and coupled with other polymers to form graft copolymers as nonviral gene vectors.

Precautions

For laboratory and research use. Not for drug, household or other uses.

Stability

Methoxypoly(Ethylene Glycol) Azide powder is stable for at least 3 months at room temperature. Storage of the stock mPEG azide powder at high temperature for more than 2 weeks may cause decomposition and yield incorrect results.

Packaging

1g in glass bottle