Product Information

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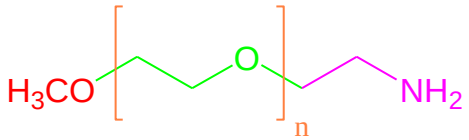
Methoxypoly(Ethylene Glycol) Amine

***Product Number*: 1101110**

Synonyms

Amine-Terminated Methoxypoly(Ethylene Glycol)

Aminopoly(Ethylene Glycol) Monomethyl Ether



Specifications

CAS Number: 80506-64-5

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

Appearance (Form): Powder

Appearance (Color): White to Faint Yellow

Proton NMR Spectrum: Conforms to Structure

Store: at Room Temperature

Substitution: ≥ 95 %

Solubility (Water): Soluble

Solubility (Turbidity): Clear

Description

Methoxypolyethylene glycol amine is a synthetic polymer and widely used in biomedical research due to its biocompatibility. Generally, Methoxy Polyethylene Glycol Amine (mPEG-NH2) is a mono reactive PEG derivative that can be used to modify proteins, peptides, particles and other materials with its free primary amine groups. Methoxyl PEG amine's amine (-NH2) group react readily with succinimidyl NHS ester groups, carboxylic groups and many other amine reactive functional groups either in aqueous buffer or organic solvents.

Applications

Methoxypolyethylene glycol amine can be used to enhance the solubility of hydrophobic compounds, drug delivery for cancer to increasing serum half-life and couple with other polymer to form graft copolymers as nonviral gene vectors.

Precautions

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

Stability

The Methoxypoly(Ethylene Glycol) Amine powder is stable for at least 6 months at room temperature. Storage of the stock Methoxypoly(Ethylene Glycol) Amine powder at high temperature for more than 2 weeks may cause decomposition and yield incorrect results.

Packaging

1g in glass bottle

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