

Product Information

Methoxypoly(Ethylene Glycol) Thiol

Product Number: 1101130

Synonyms

Thiol-Terminated Methoxypoly(Ethylene Glycol)
mPEG Thiol

Specifications

CAS Number: 134874-49-0

M.W. (Repeat Unit): 1,950 - 2050 g.mol⁻¹

Appearance (Form): Powder

Appearance (Color): White to Faint Yellow

Proton NMR Spectrum: Conforms to Structure

Store: at Room Temperature

Substitution: $\geq 95\%$

Solubility (Water): Soluble

Solubility (Turbidity): Clear

Description

Methoxy PEG Thiol (mPEG-SH) is a linear monofunctional PEG, which has a free thiol group at one end which can selectively reacts with maleimide and transition metal surface including gold, silver, etc. mPEG SH is commonly used to modify gold or silver nanoparticles. Also, it can be easily oxidized by air through S-S disulfide bonds to form dimers, which can be reversed with reducing agents.

Applications

Methoxypolyethylene glycol thiol can be used for medical research, drug-release, nanotechnology and new materials research, cell culture. In the study of ligand, polypeptide synthesis support, a graft polymer compounds, new materials, and polyethylene glycol-modified functional coatings and other aspects of the active compound.

Precautions

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

Stability

The Methoxypoly(Ethylene Glycol) thiol powder is stable for at least 6 months at room temperature. Storage of the stock Methoxypoly(Ethylene Glycol) thiol 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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