



PAMAM dendrimer G2.0 amidoethanol, water solution

Cat. No.: OB0626WX-3791

Appearance: Liquid

Size: 500 mg; 1 g; 2 g

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description

PAMAM dendrimer G2.0 amidoethanol is a compact generation 2.0 polyamidoamine macromolecule possessing 16 hydroxyl-terminated surface groups and a hydrodynamic diameter of approximately 29.4 Å. This non-transfecting polymeric scaffold acts as a biophysical antagonist against binary toxin pores within lipid bilayers, suppresses breast carcinoma proliferation, enhances the aqueous solubility and antimicrobial performance of complex antibiotics, and undergoes oxidative fragmentation to yield highly selective, fluorescent hydroxylamine indicators for monitoring intracellular hypochlorite levels.

Formulation

Aqueous solution

Synonyms

PAMAM G2.0 Amidoethanol; Polyamidoamine Dendrimer G2.0 Amidoethanol

Formula

$[\text{NH}_2(\text{CH}_2)_2\text{NH}_2]:(\text{G}=2); \text{dendrimer PAMAM}(\text{NHCH}_2\text{CH}_2\text{OH})_{16}$

Formula Weight

3271.9

Specification

Solubility in Other Solvents

Soluble in water.

Stability

1 year

Storage

Storage at -20°C.

Applications

PAMAM dendrimer G2.0 amidoethanol, water solution serves as a dendrimer reagent for studies of polymer architecture, molecular interactions, and nanostructured delivery systems. It supports research into dendrimer functionalization, formulation design, and characterization of polymer-based materials.