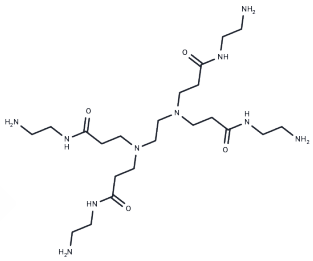
Data Sheet (Cat.No.T203456)

TargetMol

PAMAM Dendrimer G0.0 amine

Chemical Properties



CAS No. : 155773-72-1

Formula: C22H48N10O4

Molecular Weight: 516.68

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	PAMAM Dendrimer G0.0 amine functions as a pore-forming channel antagonist, affecting anthrax toxin protective antigen 63 (PA63, IC50 of 231 nM) and Clostridium botulinum C2 toxin subunit (C2IIa, IC50 of 940 nM). At 10 and 20 μM concentrations, it reduces HeLa cell death induced by C2 toxin. Additionally, PAMAM Dendrimer G0.0 amine acts as a nickel chelator. When combined with a chitosan complex on polysulfone membranes, it selectively captures and stores carbon dioxide (CO2) in gas feed systems. It is utilized in synthesizing PAMAM Dendrimer G0.5 Carboxylate (CAS 339334-01-9) and PAMAM Dendrimer G1.0 Amine (CAS 142986-44-5). This compound is applicable in research related to infection, cancer, and drug delivery systems.
Targets(IC50)	Antibacterial,Antibiotic

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9354 mL	9.6772 mL	19.3543 mL
5 mM	0.3871 mL	1.9354 mL	3.8709 mL
10 mM	0.1935 mL	0.9677 mL	1.9354 mL
50 mM	0.0387 mL	0.1935 mL	0.3871 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481