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Zuschläge

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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

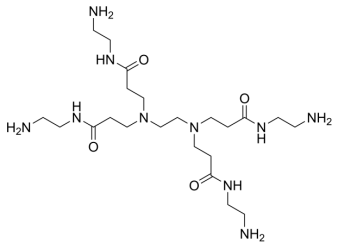
mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

PAMAM Dendrimer G0.0 amine

Cat. No.:	HY-W157376
CAS No.:	155773-72-1
Molecular Formula:	$C_{22}H_{48}N_{10}O_4$
Molecular Weight:	516.68
Target:	Bacterial; Antibiotic; Drug Intermediate
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

PAMAM Dendrimer G0.0 amine is a pore-forming channel antagonist, including anthrax toxin protective antigen 63 (PA63, IC_{50} = 231 nM) and C. botulinum C2 toxin subunit (C2IIa, IC_{50} = 940 nM). At concentrations of 10 and 20 μM, PAMAM Dendrimer G0.0 amine reduces C2 toxin-induced death in HeLa cells. Additionally, PAMAM Dendrimer G0.0 amine is a chelator of nickel. In complexes with polysulfone membrane-bound chitosan, PAMAM Dendrimer G0.0 amine selectively captures and stores carbon dioxide (CO2) in a gas-feed system. PAMAM Dendrimer G0.0 amine has been used in the synthesis of PAMAM Dendrimer G0.5 Carboxylate (CAS 339334-01-9) and PAMAM Dendrimer G1.0 Amine (CAS 142986-44-5). PAMAM Dendrimer G0.0 amine can be used in research related to infections, cancer, and drug delivery systems[1][2][3][4].

REFERENCES

[1]. Heiden TC, et al. Developmental toxicity of low generation PAMAM dendrimers in zebrafish. Toxicol Appl Pharmacol. 2007 Nov 15;225(1):70-9.

[2]. Förstner P, et al. Cationic PAMAM dendrimers as pore-blocking binary toxin inhibitors. Biomacromolecules. 2014 Jul 14;15(7):2461-74.

[3]. Sohail I, et al. Polyamidoamine (PAMAM) dendrimers synthesis, characterization and adsorptive removal of nickel ions from aqueous solution[J]. Journal of Materials Research and Technology, 2020, 9(1): 498-506.

[4]. Xiao Y, et al. Surface characterization, modification chemistry, and separation performance of polyimide and polyamidoamine dendrimer composite films. Langmuir. 2004 Sep 14;20(19):8230-8.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA