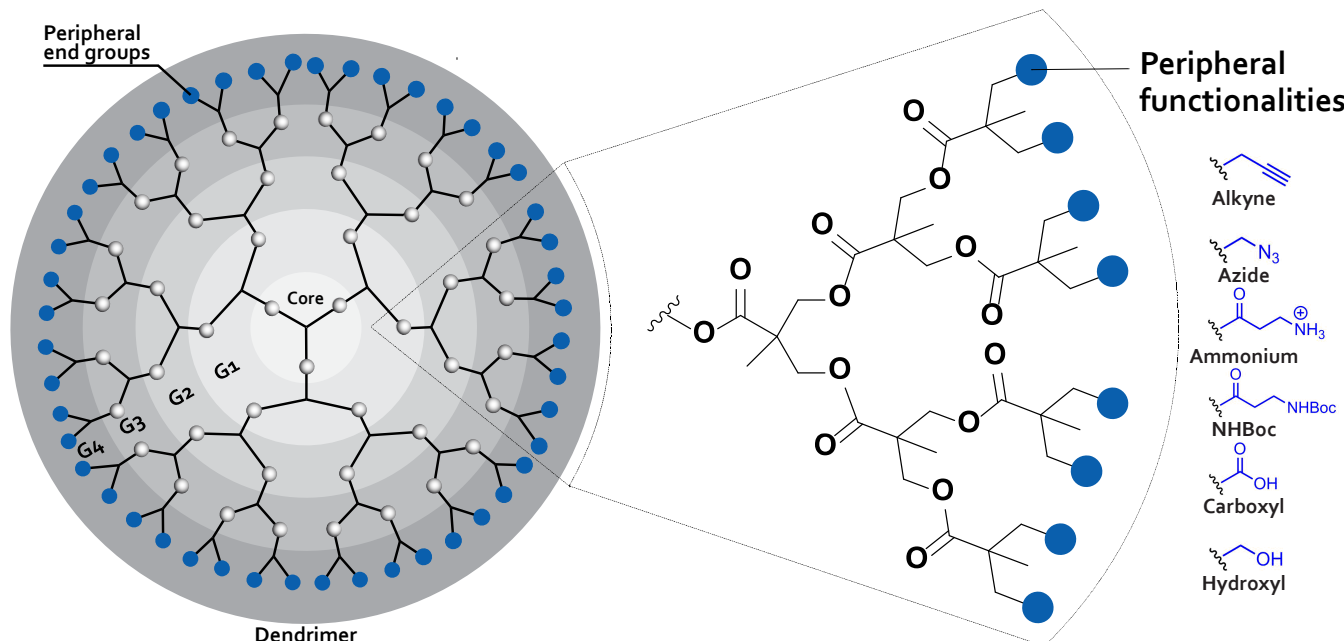


DISCOVER **POLYMER**FACTORY'S

BIO-COMPATIBLE & Non-Toxic **POLYESTER DENDRIMERS**



Why choose our products?

An assurance of Quality

All our Dendrimers are truly monodisperse and are assessed using NMR, MALDI-TOF & SEC to ensure overall high purity and structural perfection. Analytical documents including COA are delivered with the purchased product(s).

Technical expertise based Service

Polymer Factory's team of scientists are experts in dendrimer chemistry. With our in-depth know-how in dendritic materials, we are your natural partner in developing leading organic materials for the future. We welcome customised projects and have maintained a 100% success rate for our clients.

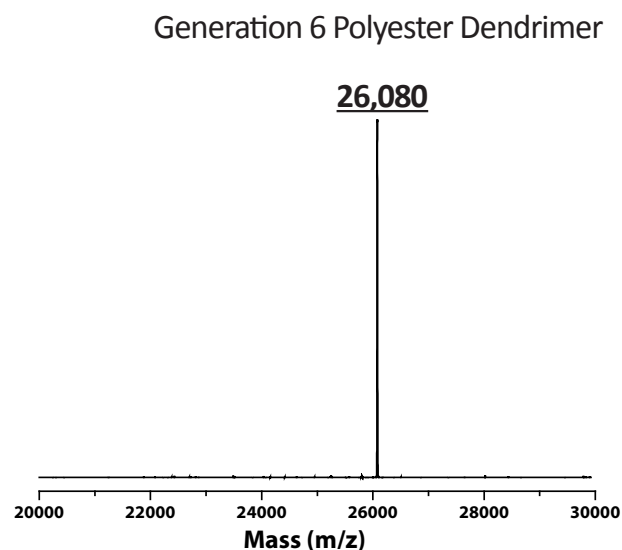


Figure 1: MALDI-TOF highlights monodisperse nature of the dendrimer

Key Features:

- Monodisperse organic nanomaterials*
- Exact number of peripheral functionalities*
- Wide range of applications*
- Variety of functional groups*
- Storage stable*
- Batch to batch consistency*
- Biodegradable & biocompatible scaffolds*
- High loading capacity*



We know Dendrimers, Dendrons and Dendrimer derivatives.
Give us a challenge.

Product & Ordering Information

Scientific publications in related fields:

Biological applications:

"Self-Assembled Arrays of Dendrimer-Fold-Nanoparticle Hybrids for Functional Cell Studies." *Angewandte Chemie*. 2011; 50 (15); 3450-3453.

Review of Bis-MPA Dendritic Materials

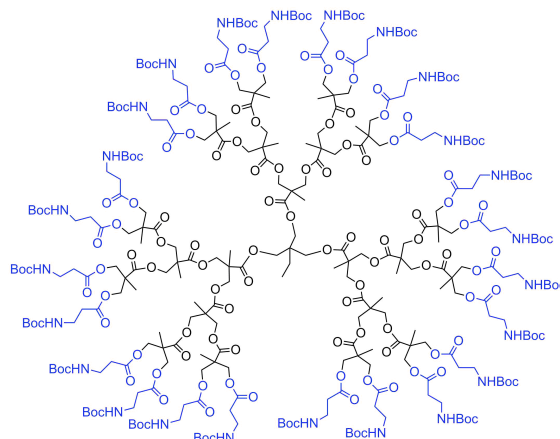
"Chemistry of multifunctional polymers based on bis-MPA and their cutting-edge applications" *Progress in Polymer Science* 2015; 48; 85-110.

Dendrimers and click chemistry:

"Structurally diverse dendritic libraries; A highly efficient functionalization approach using Click chemistry." *Macromolecules* 2005; 38; 9; 3663-3678.

Biocompatibility and biodegradability of Bis-MPA dendrimers:

"Stability and biocompatibility of a library of polyester dendrimers in comparison to polyamidoamine dendrimers." *Biomaterials* 2012;33; 7; 1970-1981.



Molecular Structure: PFD-G3-TMP-NHBOC

To see our complete library of dendrimers and dendrons, please visit www.polymerfactory.com

Selected Dendrimer Library

Product	Product Number	Functional Groups	Generation	No. End Groups	MW (g mol ⁻¹)
PFD-G3-TMP-Azide	PFD-010308	Azide	3	24	5,912
PFD-G4-TMP-Azide	PFD-010408	Azide	4	48	11,055
PFD-G5-TMP-Azide	PFD-010508	Azide	5	96	22,359
PFD-G3-TMP-COOH	PFD-010305	Carboxyl	3	24	4,974
PFD-G4-TMP-COOH	PFD-010405	Carboxyl	4	48	10,163
PFD-G5-TMP-COOH	PFD-010505	Carboxyl	5	96	20,530
PFD-G3-TMP-NH ₃ ⁺	PFD-010312	Amine	3	24	4,276
PFD-G4-TMP-NH ₃ ⁺	PFD-010412	Amine	4	48	8,771
PFD-G5-TMP-NH ₃ ⁺	PFD-010512	Amine	5	96	17,757
PFD-G3-TMP-NHBOC	PFD-010313	Boc protected amine	3	24	6,681
PFD-G4-TMP-NHBOC	PFD-010413	Boc protected amine	4	48	13,577
PFD-G5-TMP-NHBOC	PFD-010513	Boc protected amine	5	96	27,368
PFD-G3-TMP-Acetylene	PFD-010304	Acetylene	3	24	5,888
PFD-G4-TMP-Acetylene	PFD-010404	Acetylene	4	48	11,989
PFD-G5-TMP-Acetylene	PFD-010504	Acetylene	5	96	24,193

Disulfide Core

Our disulfide dendrimers can be functionalized followed by facile reduction to a thiol dendron for further conjugation.

Product	Product Number	Core Functional Group	Peripheral Functional Group	Generation	No. End Groups	MW (g mol ⁻¹)
PFD-G2-SS-OH	PFD-020201	Hydroxyl	Hydroxyl	2	12	851
PFD-G3-SS-OH	PFD-020301	Hydroxyl	Hydroxyl	3	24	1,780
PFD-G4-SS-OH	PFD-020401	Hydroxyl	Hydroxyl	4	48	3,638
PFD-G5-SS-OH	PFD-020501	Hydroxyl	Hydroxyl	5	96	7,353

Ordering Information

To order, simply send us an email to info@polymerfactory.com or order through our website by filling out the order form online.



About Polymer Factory

Founded in 2006 at the Royal Institute of Technology in Stockholm, Sweden, Polymer Factory is a leading provider of advanced dendritic and polymeric materials, while also providing customized products as a contract research company.

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Polymer Factory is the sole manufacturer of dendritic materials based on the Bis-MPA building block for research applications. Our business strategy includes developing future ground-breaking dendritic and polymeric materials in close collaboration with clients in the pharmaceuticals and semiconductors sector.