PEE-G dendrimers

VICTORIA UNIVERSITY OF WELLINGTON
TE WHARE WĀNANGA O TE ŪPOKO O TE IKA A MĀUI

Ferrier Research Institute
Te Kāuru

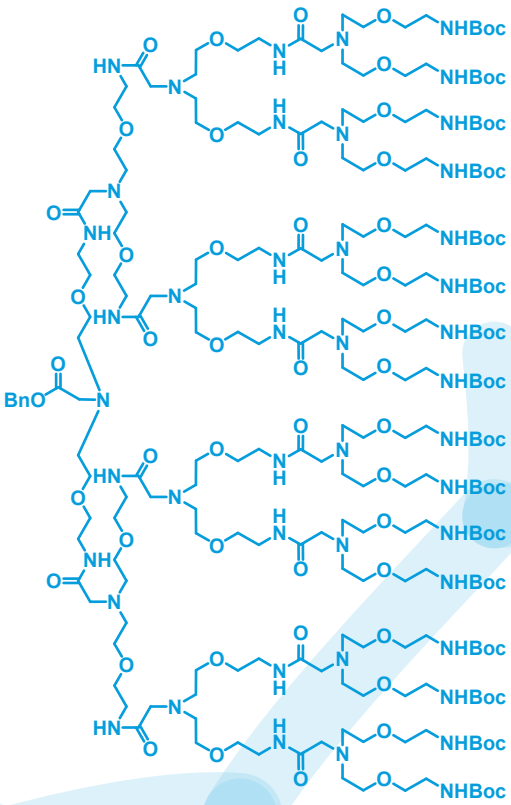
Macromolecular scaffolds specifically designed for pharmaceutical applicatons

Dendrimers are large, banched molecules with well-defined structure. They can be can be conjugated to or used to encapsulate therapeutic drugs or imaging moieties or may also be used as drugs in their own right.

PEE-G dendrimers have been designed to be:

Stable	No observable degradation of G4 PEE-G CO_2H after 24 hrs at 40 °C, neat or in PBS.
Non-toxic	Observed to have low cytotoxicity, low immunogenicity and acute tolerated dose in adult rats of >1000 mg/kg
Pure	High purity by HPLC and being constantly improved
Scalable	Made from cheap, readily available starting materials via an efficient, scalable, convergent synthesis
Water soluble	G4 PEE-G CO_2H soluble in PBS at >400 mg/mL
Flexible	Long linkers between branching points giving a 'low density', long reach dendrimer
Variations	Free acid centre and/or free amine terminals. Carboxylic acid (mono or di) capped terminals. Alternating amine and hydroxy terminals.

G4 BnO PEE-G NHBoc

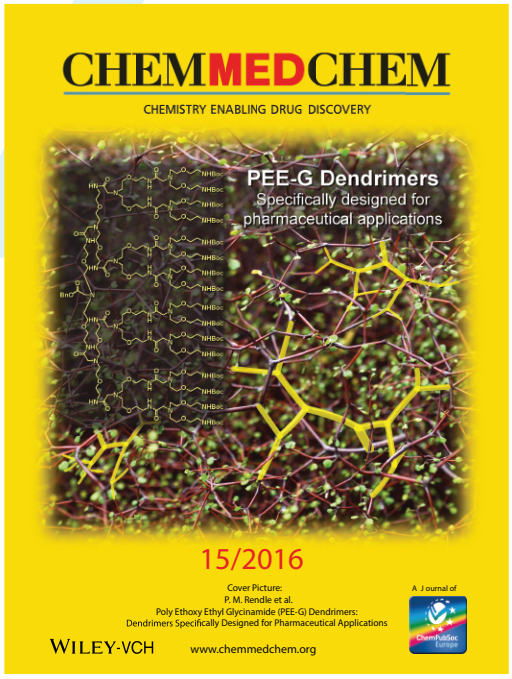


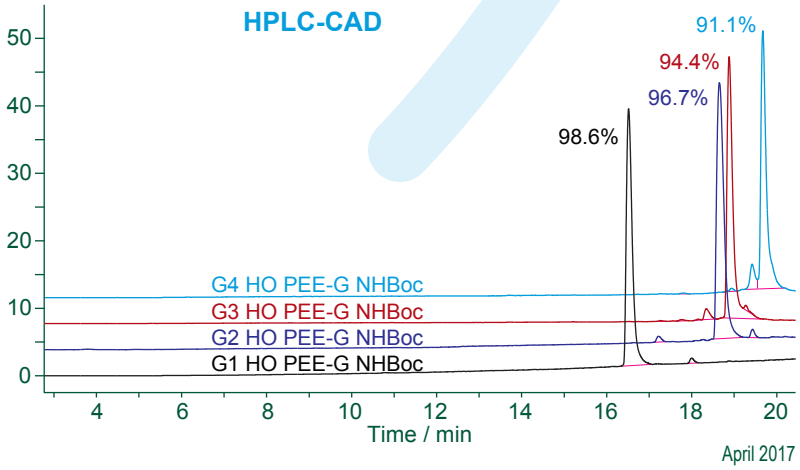
GlycoSyn®

Our partners, GlycoSyn, have the ability to manufacture on kilogram scale and under GMP to provide products suitable for human clinical trials.

PEE-G dendrimers can be **purchased online**:
www.glycofinechem.glycosyn.com/collections/dendrimers

The scaffold is patent protected and available for licensing. Contact Stephen Lorimer: stephen.lorimer@vuw.ac.nz.





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