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Dendrimer

National Cancer Institute

Source

National Cancer Institute. *Dendrimer*. NCI Thesaurus. Code C62363.

A polymeric molecule which has a highly-branched, three-dimensional architecture. Dendrimers are synthesized from monomers and new branches are added in discrete steps to form a tree-like architecture. A high level of synthetic control is achieved through step-wise reactions and purification at each step to regulate the size, architecture, functionality and monodispersity of the molecules. These polymers have desirable pharmacokinetic properties and a polyvalent array of surface groups that make them potential drug delivery vesicles.