

Building Blocks for Dendrimer

Dendrimers are a single dendritic polymer consisting of three layers, its core, dendron regularly branched from the core, and the exterior surface layer. The typical species become globular and their size is in a clear-cut nm scale, having physical properties different from conventional straight polymer. Since their report in 1984 by Tomalia and co-workers, they have received much attention in many areas and active research has been carried out. The availability of about 9,000 related reports through a search of the Chemical Abstract, for example, using "Dendrimer" as a key word, proves how popular this subject is.

Functional elements and functional groups can be introduced into the core, dendron and surface layer. The synthetic technique is divided mainly into the divergent method, where synthesis proceeds from the center core toward the outside, and the convergent method, where synthesis proceeds from the exterior shell to the core.

For the synthesis of the regularly branched portions, multi-functional compounds have been utilized. The 1,3,5-tri-substituted benzenes, shown below are useful building blocks for Dendrimers.

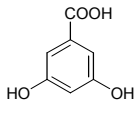
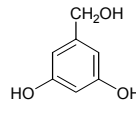
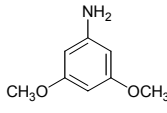
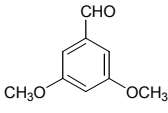
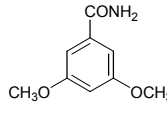
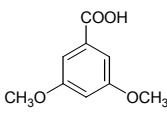
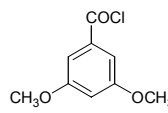
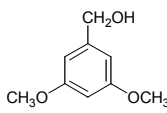
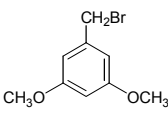
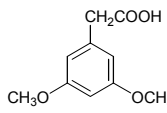
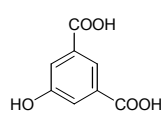
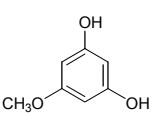
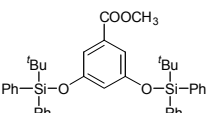
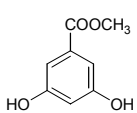
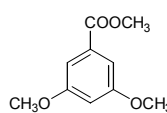
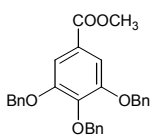
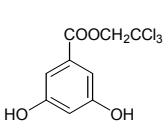
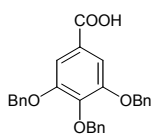
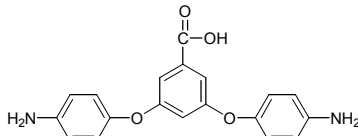
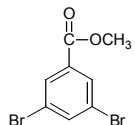
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D2844 	D2085 	D2267 	D3184 	B2092
D2651 	B2093 	D2832 	D2353 	D2824
D2724 	D2695 	I0302 	D1981 	D2875

Keywords : trisubstituted benzene, building block for dendrimer

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D0570 D2554 	D2656 	D1484 	D1164 	D1558 
D1534 	D2609 	D2594 	D2657 	D2950 
H0794 	M1413 	B2051 	D2215 	D1737 
T1870 	D2655 	T1869 	B2081 	
M1929 				

B2118	3,5-Bis[3,5-bis(benzyloxy)benzyloxy]benzyl Bromide	1g	5g
B2865	3,5-Bis[3,5-bis(methoxycarbonyl)phenoxy]methylphenol		200mg
B2052	3,5-Bis(<i>tert</i> -butyldiphenylsilyloxy)benzyl Alcohol		1g
B2246	3,5-Bis(3,5-dimethoxybenzyloxy)benzyl Alcohol	1g	5g
B2247	3,5-Bis(3,5-dimethoxybenzyloxy)benzyl Bromide	1g	5g
B2120	3,5-Bis(4-nitrophenoxy)benzoic Acid		5g
B2866	5-(<i>tert</i> -Butyldiphenylsilyloxy)-1,3-benzenedimethanol	1g	5g
C1258	1-Chloro-3,5-dimethoxybenzene		10g
C2029	1,3,5-Cyclohexanetricarboxylic Acid	5g	25g
D1978	3',5'-Diacetoxyacetophenone	10g	25g
D2844	3,5-Diacetoxybenzoic Acid	1g	5g
D2085	3',5'-Dibenzoyloxyacetophenone		10g
D2267	3,5-Dibenzoyloxybenzoic Acid	5g	25g
D3184	3,5-Dibenzoyloxybenzaldehyde	1g	5g
B2092	3,5-Dibenzoyloxybenzoic Acid Methyl Ester		5g
D2651	3,5-Dibenzoyloxybenzyl Alcohol	5g	25g
B2093	3,5-Dibenzoyloxybenzyl Bromide		5g
D2832	3,5-Dibromobenzaldehyde	5g	25g
D2353	3,5-Dibromobenzoic Acid		10g
D2824	3',5'-Dibromo-4'-hydroxyacetophenone		5g
D2724	3,5-Dibromo-1-trimethylsilylbenzene		5g
D2695	3,5-Di- <i>tert</i> -butylbenzoic Acid Methyl Ester		5g

I0302	3,5-Dichlorophenyl Isocyanate		10g
D1981	3',5'-Dihydroxyacetophenone	10g	25g
D2875	3,5-Dihydroxybenzamide		5g
D0570	3,5-Dihydroxybenzoic Acid	25g	500g
D2554	3,5-Dihydroxybenzoic Acid	25g	500g
D2656	3,5-Dihydroxybenzyl Alcohol	5g	25g
D1484	3,5-Dimethoxyaniline	5g	25g
D1164	3,5-Dimethoxybenzaldehyde	5g	25g
D1558	3,5-Dimethoxybenzamide		5g
D1534	3,5-Dimethoxybenzoic Acid	25g	500g
D2609	3,5-Dimethoxybenzoyl Chloride	5g	25g
D2594	3,5-Dimethoxybenzyl Alcohol	5g	25g
D2657	3,5-Dimethoxybenzyl Bromide	5g	25g
D2950	3,5-Dimethoxyphenylacetic Acid		1g
H0794	5-Hydroxyisophthalic Acid	25g	500g
M1413	5-Methoxyresorcinol		1g
B2051	Methyl 3,5-Bis(<i>tert</i> -butyldiphenylsilyloxy)benzoate (<i>ca.</i> 20% in Toluene, <i>ca.</i> 0.28mol/L)		25g
D2215	Methyl 3,5-Dihydroxybenzoate	25g	250g
D1737	Methyl 3,5-Dimethoxybenzoate		25g
T1870	Methyl 3,4,5-Tris(benzyloxy)benzoate		5g
D2655	2,2,2-Trichloroethyl 3,5-Dihydroxybenzoate (<i>ca.</i> 20% in Dichloromethane, <i>ca.</i> 1mol/L)	5g	25g
T1869	3,4,5-Tris(benzyloxy)benzoic Acid	5g	25g
B2081	3,5-Bis(4-aminophenoxy)benzoic Acid	1g	5g
M1929	Methyl 3,5-Dibromobenzoate	5g	25g