

Building Blocks for Dendrimers

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 12,000 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. Please refer to our website for other building blocks. We provide the structure search on the website and you can search by the substructure.

B2081 	B2118 	B2248 	B2865 	B2052
B2246 	B2247 	B2866 	B2120 	C1258
D1978 	D2844 	D2085 	D3184 	D2832
D2267 	D2651 	D2353 	B2093 	D2824
D2724 	I0302 	D1981 	D2875 	D0570 D2554

Keywords : trisubstituted benzene, building block for dendrimer

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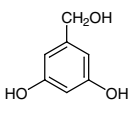
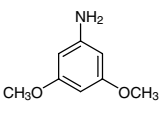
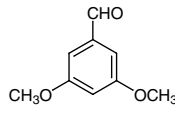
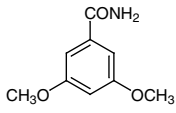
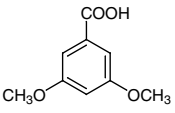
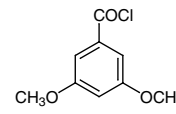
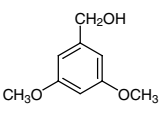
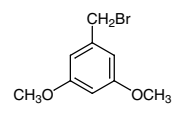
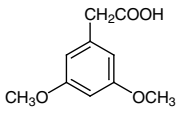
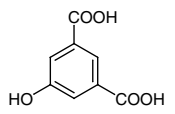
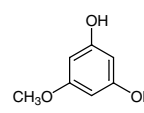
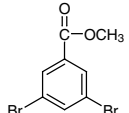
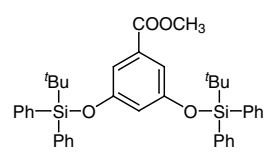
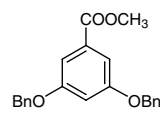
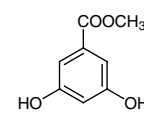
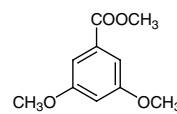
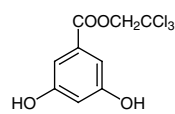
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D2656	D1484	D1164	D1558	D1534
				
D2609	D2594	D2657	D2950	H0794
				
M1413	M1929	B2051		B2092
				
D2215	D1737	D2655		
				

B2081	3,5-Bis(4-aminophenoxy)benzoic Acid	1g	5g
B2118	3,5-Bis[3,5-bis(benzyloxy)benzyloxy]benzyl Bromide	1g	5g
B2248	3,5-Bis[3,5-bis(3,5-dimethoxybenzyloxy)benzyloxy]benzyl Bromide		1g
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
B2866	5-(<i>tert</i> -Butyldiphenylsilyloxy)-1,3-benzenedimethanol	1g	5g
B2120	3,5-Bis(4-nitrophenoxy)benzoic Acid		5g
C1258	1-Chloro-3,5-dimethoxybenzene	10g	25g
D1978	3',5'-Diacetoxyacetophenone	10g	25g
D2844	3,5-Diacetoxybenzoic Acid	1g	5g
D2085	3',5'-Dibenzyloxyacetophenone		10g
D3184	3,5-Dibenzyloxybenzaldehyde	1g	5g
D2832	3,5-Dibromobenzaldehyde	5g	25g
D2267	3,5-Dibenzyloxybenzoic Acid	5g	25g
D2651	3,5-Dibenzyloxybenzyl Alcohol	5g	25g
D2353	3,5-Dibromobenzoic Acid		10g
B2093	3,5-Dibenzyloxybenzyl Bromide	5g	25g
D2824	3',5'-Dibromo-4'-hydroxyacetophenone	5g	25g
D2724	3,5-Dibromo-1-trimethylsilylbenzene		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
M1929	Methyl 3,5-Dibromobenzoate	5g	25g
B2051	Methyl 3,5-Bis(<i>tert</i> -butyldiphenylsilyloxy)benzoate (ca. 20% in Toluene, ca. 0.28mol/L)		25g
B2092	Methyl 3,5-Dibenzyloxybenzoate	5g	25g
D2215	Methyl 3,5-Dihydroxybenzoate	25g	250g
D1737	Methyl 3,5-Dimethoxybenzoate		25g
D2655	2,2,2-Trichloroethyl 3,5-Dihydroxybenzoate (ca. 20% in Dichloromethane, ca. 1mol/L)	5g	25g