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This article studies the 'dendritic effect' on dendrimers having functional core unit. In the present report, we have attempted to explore the multifaceted properties of amino acid – metal complexes when encapsulated inside by bulky dendron groups. The work carried out enlarges the scope of dendritic synthetic principles to be applied to other functional molecules important in chemistry, biology and materials. Amino acid – metal complexes are one of the mostly widely studied among metal complexes and our attempt to incorporate them into the dendritic environment is unique, as this strategy will allow the properties amino acids and peptides to be studied in an isolated environment.