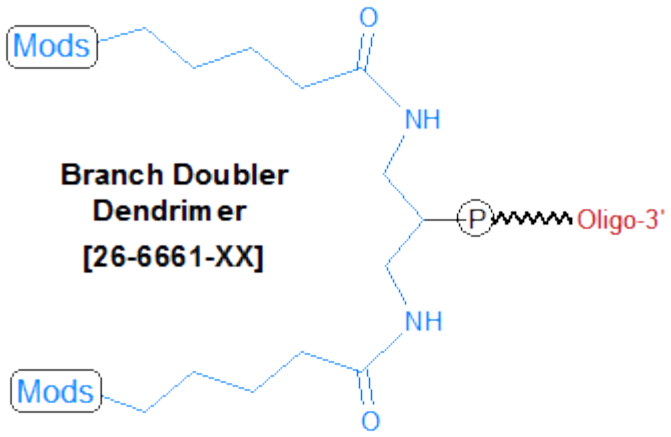
Dendrimer Branch Doubler C8

Category	Dendrimer
Modification Code	DndD-C8
Reference Catalog Number	26-6661
5 Prime	Y
3 Prime	Y
Internal	Y
Molecular Weight(mw)	351.31



Branch Doubler C2, Branch Doubler C8, Trebler and Long Trebler Dendrimer are oligonucleotide modifications that can be added to synthetic oligos to create branches. Multiple additions of these branching modifications are primarily used to add/conjugate ligands, fluorescent labels, tags and other modifications to increase sensitivity and multiple attachment points.

The addition of multiple tags a the end of an oligo is of particular interest in nano-sensor and solid phase attachment applications. Similarly multiple ligands at the 5' end of synthetic oligo probes increases sensitivity.

Multiple additions of the dendrimer is possible that will create more branches. It is to be noted that addition of multiple sites will require increasing the scale of synthesis correspondingly. A rough guideline is doubling the scale of synthesis with each additional dendrimer doubler site and preferably tripling the scale of synthesis for Trebler Dendrimer sites.

Synthesis of Branched DNA with a Comb Structure. The use of **Brancher levulinyl 5-me dC.** modification is to generate a branch comb like structure that is capable of having different modifications, unlike dendrimer that is branched but the branches are extended with the same modification.

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