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Asymmetric synthesis of 8-O-4'- neolignan perseal B

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Abstract: Full details of an enantioselective total synthesis of 8-O-4'-neolignan perseal B are presented for the first time. The synthesis was achieved in 8 steps from vanillin and involved the asymmetric dihydroxylation reaction using AD-mix- α to give the key intermediate (1S,2S)-1-(4-(benzyloxy)-3-methoxyphenyl)propane-1,2,3- triol, and the Mitsunobu reaction between phenylpropanoid and vanillin formed perseal B. The synthetic method of perseal B exhibits a new route for 8-O-4'-neolignan.

Key Words: Neolignans; perseal B; enantioselective synthesis.