

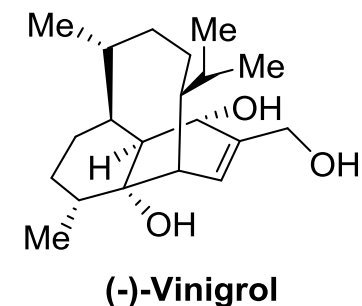
Asymmetric Total Synthesis of (-)-Vinigrol

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(-)-Vinigrol was isolated by Hashimoto and coworkers in 1987 from the fungal strain *Virgaria nigra* F-5408. It inhibits human platelet aggregation ($IC_{50} = 52$ nM) and is an antagonist of tumor necrosis factor (TNF- α).

It has an unprecedented highly rigid 1,5-butanodecahydronaphthalene core with eight contiguous stereocenters. And the unusual bridged bicyclo[5.3.1]-undecane ring system is also present in the well-known terpene taxol.



retro-synthetic route

