

F1064m: New Inhibitor of Cholesteryl
Ester Transfer Protein (CETP), Isolated from
Gliocladium virens F1064

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Cholesteryl Ester Transfer Protein (CETP), a hydrophobic glycoprotein with molecular mass 74KDa, is a lipid transfer protein found in plasma which mediates the transfer of cholesterol ester and triglyceride between high-density lipoprotein (HDL) and other lipoproteins, therefore, it might influence HDL levels. The lipoprotein profile associated with human CETP deficiency (that are two Japanese families, high HDL and low LDL) has low atherogenic potential, raising the possibility that CETP inhibitors can be used as antiatherosclerotic drugs.

Our continuing search for CETP inhibitors led us to isolate a novel F1064m from the fermentation broth of fungus, isolated from Mt. Jilee, Korea. Isolation, structure elucidation, and biological activity have been discussed.