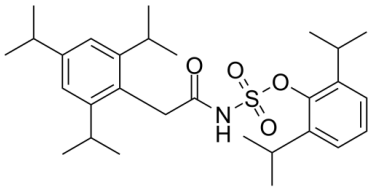
Data Sheet

Product Name:	Avasimibe
Cat. No.:	CS-5695
CAS No.:	166518-60-1
Molecular Formula:	C29H43NO4S
Molecular Weight:	501.72
Target:	Acyltransferase
Pathway:	Metabolic Enzyme/Protease
Solubility:	H2O : < 0.1 mg/mL (insoluble); DMSO : ≥ 28 mg/mL (55.81 mM)



BIOLOGICAL ACTIVITY:

Avasimibe is a ACAT inhibitor incluing ACAT-1 and ACAT-2 In vitro: 1) Avasimibe has beneficial on plasma lipids and direct antiatherosclerotic activity, independent of lipid effects, in various animal models of hypercholesterolemia 2) Avasimibe enhances the lipid lowering effect of atorvastatin in subjects with homozygousfamilial hypercholesterolemia. In vivo: 1) The reference for administration is daily dosages up to 1000 mg/d for up to 2 weeks and 750 mg/d for up to 8 weeks. 2) Avasimibe reduced plasma apoB levels by 20% in A-PLUS when given at a dose of 750 mg. 3) Avasimibe can potently lowered plasma cholesterol levels in ApoE*3-Leiden mice and considerably reduced atherosclerotic lesion area in addition to its cholesterol-lowering effect.

References:

[1]. Tardif JC et al. Effects of the acyl coenzyme A:cholesterol acyltransferase inhibitor avasimibe on human atherosclerotic lesions. Circulation, 2004 Nov 23, 110(21):3372-7.

[2]. Raal FJ et al. Avasimibe, an ACAT inhibitor, enhances the lipid lowering effect of atorvastatin in subjects with homozygousfamilial hypercholesterolemia. Atherosclerosis, 2003 Dec, 171(2):273-9.

[3]. Delsing DJ et al. Acyl-CoA:cholesterol acyltransferase inhibitor avasimibe reduces atherosclerosis in addition to its cholesterol-lowering effect in ApoE*3-Leiden mice. Circulation, 2001 Apr 3, 103(13):1778-86.

CAIndexNames:

Sulfamic acid, N-[2-[2,4,6-tris(1-methylethyl)phenyl]acetyl]-, 2,6-bis(1-methylethyl)phenyl ester

SMILES:

O=C(NS(=O)(OC1=C(C(C)C)C=CC=C1C(C)C)=O)CC2=C(C(C)C)C=C(C(C)C)C=C2C(C)C

Caution: Product has not been fully validated for medical applications. For research use only.

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