

1mg

Catalog No: RP-64477



Available Sizes

Size: c29h42n2o3s



Specifications

CAS No:

casno

Formula:

135239⁻65⁻5

Pathway:

Acyltransferase

Target:

RP-64477 is a potent inhibitor of the cholesterol esterifying enzyme Acyl-coenzyme A:cholesterol O-acyltransferase (**ACAT**). IC₅₀ & Target: ACAT^[1] **In Vitro:** RP-64477 is a potent inhibitor of the cholesterol esterifying enzyme Acyl-coenzyme A:cholesterol O-acyltransferase (ACAT). Inhibitory potencies of RP-64477 *in vitro* in tissue preparations are obtained from a range of species and in human cell cultures. For animal tissues, IC₅₀ values in the range 6 to 283 nM are recorded, with no obvious species/tissue differences apparent. Potent inhibitory activity of RP-64477 is also recorded in human cell lines of hepatic (HepGZ), intestinal (CaCo-2), and monocytic (THP-1) origin with IC₅₀s of 503, 113, and 180 nM, respectively. No inhibitory activity is recorded against rat PCEH or LCAT at test concentrations up to 200 μM and 20 μM, respectively^[1]. **In Vivo:** Administration of RP-64477 (0.01% and 0.03% w/w by diet) reduces significantly plasma cholesterol levels in cholesterol/cholic acid-fed rats by 29% and 61%, respectively. Food consumption is not affected by dietary incorporation of RP-64477. Animals receiving RP-64477 (10 and 30 mg/kg b.i.d.) over this period exhibit significantly lower plasma cholesterol levels on both days 4 and 7 when compare to values recorded from vehicle treated animals fed the cholesterol-containing diet. Compare to cholesterol-fed controls, after 7 days of dosing, plasma cholesterol levels are 35% and 53% lower in animals receiving 10 and 30 mg/kg b.i.d. doses of RP-64477, respectively^[1].

Purity / Grade:

498.72

Solubility:

No Development Reported

Alternative Names:

540



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!