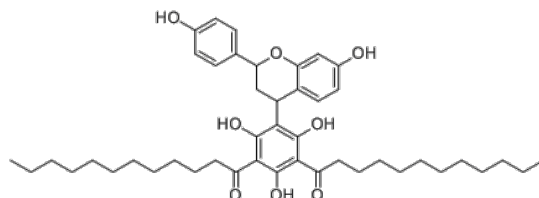


Product Name : YM26734
Cat. No. : PC-38483
CAS No. : 144337-18-8
Molecular Formula : C₄₅H₆₂O₈
Molecular Weight : 730.983
Target : Phospholipase
Solubility : 10 mM in DMSO



Biological Activity

YM-26734 is a potent, selective and competitive inhibitor of extracellular group II phospholipase A₂ (sPLA₂) with IC₅₀ of 85 nM (rabbit platelet-derived group II), >70-fold selectivity over group I PLA₂.

YM-26734 did not reduce the activity of intracellular PLA₂ prepared from mouse macrophages, which preferentially hydrolyzed arachidonoyl phospholipids at concentrations up to 50 μM.

YM-26734 also showed no effect against either sheep seminal vesicle cyclo-oxygenase or rat leukocyte 5-lipoxygenase.

YM-26734 is a competitive inhibitor of group II PLA₂ derived from rabbit platelets with K_i of 48 nM.

YM-26734 inhibited 12-O-tetradecanoylphorbol-13-acetate (TPA, 1 mg/ear)-induced ear oedema in a dose-dependent manner, with ED₅₀ values of 45 mg/ear and 11 mg/kg, i.v.

References

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Miyake A, et al. Eur J Pharmacol. 1994 Feb 21;253(1-2):155-61.

Rodríguez Diez G, et al. Exp Eye Res. 2013 Aug;113:172-81.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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