Product Information

YM-26734
Item No. 17631

CAS Registry No.: 144337-18-8
Formal Name: 1,1’-[5-[3,4-dihydro-7-hydroxy-2-(4-hydroxyphenyl)-2H-1-benzopyran-4-yl]-2,4,6-trihydroxy-1,3-phenylene] bis-1-dodecanone

MF: C_{45}H_{62}O_{8}
FW: 731.0
Purity: >95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ\text{max}: 276, 344 nm

Laboratory Procedures
For long term storage, we suggest that YM-26734 be stored as supplied at -20°C. It should be stable for at least two years. YM-26734 is supplied as a crystalline solid. A stock solution may be made by dissolving the YM-26734 in the solvent of choice. YM-26734 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of YM-26734 in these solvents is approximately 30, 20, and 25 mg/ml, respectively.

YM-26734 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, YM-26734 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. YM-26734 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Secreted phospholipases A₂ (sPLA₂) are a diverse family of low molecular weight PLA₂s with tissue-specific expression patterns and actions. The group IIA sPLA₂ (sPLA₂-IA) was originally purified from platelets and exudates from patients with rheumatoid arthritis. Its expression can be induced by inflammatory mediators, and mouse studies suggest that it may play roles in colorectal polyposis, atherosclerosis, and bacterial infections. YM-26734 is a derivative of a compound isolated from the fruit of H. amygdaline that competitively inhibits rabbit platelet sPLA₂ with an IC₅₀ value of 85 nM. It inhibits sPLA₂-hGIIA, -mGIIA, -rGIIA, -hGV, -mGV, -hGX, and -mGX with IC₅₀ values of 80, 30, 120, 110, 520, >1600, and >1600 nM, respectively. YM-26734 displays minimal activity at cytosolic PLA₂, COX, and lipoxygenase. At 45 µg/ear or 11 mg/kg i.v., YM-26734 has been used to ameliorate local inflammatory responses in TPA-induced mouse ear edema.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/17631

SafETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to your institution.

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