

Product Name: YM 26734

Catalog No.: 2522

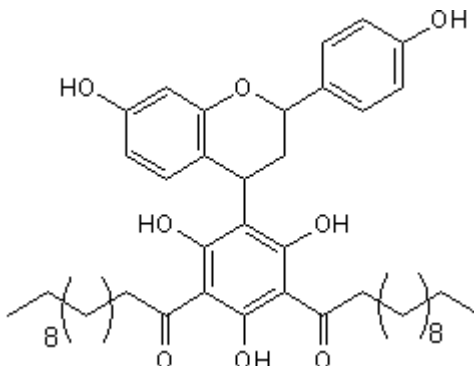
Batch No.: 4

CAS Number: 144337-18-8

IUPAC 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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₅H₆₂O₈
Batch Molecular Weight: 730.97
Physical Appearance: Beige foam
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.35 (Chloroform:Methanol [95:5])
HPLC: Shows 95% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.94	8.55	
Found	73.75	8.69	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Competitive inhibitor of secretory phospholipase A₂ (sPLA₂) that exhibits a broad inhibitory profile to several sPLA₂s (IC₅₀ values are 0.2, 1, 1, 1 and 3 μM for sPLA₂-X, -IIA, -IID, -V and -IIE respectively). Displays minimal activity at sPLA₂-IIF and no activity at cytosolic PLA₂, cyclooxygenase and lipoxygenase. Ameliorates local inflammatory responses in TPA-induced mouse ear edema.

Physical and Chemical Properties:

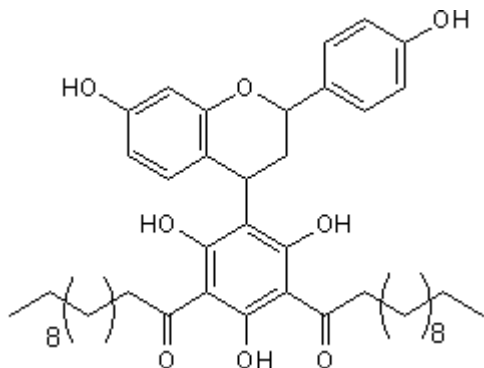
Batch Molecular Formula: C₄₅H₆₂O₈

Batch Molecular Weight: 730.97

Physical Appearance: Beige foam

Minimum Purity: >95%

Batch Molecular Structure:



References:

Miyake et al (1993) Suppression of inflammatory responses to 12-O-tetradecanoyl-phorbol-13-acetate and cargeenin by YM-26734, a selective inhibitor of extracellular group II phospholipase A₂. *Br.J.Pharmacol.* **110** 447. PMID: 8220906.

Miyake et al (1994) Exogenous group II phospholipase A₂ prostaglandin E₂ production in mouse peritoneal macrophages. *Eur.J.Pharmacol.* **253** 155. PMID: 8013541.

Hamaguchi et al (2003) Induction of distinct sets of secretory phospholipase A₂ in rodents during inflammation. *Biochim.Biophys.Acta* **1635** 37. PMID: 14642775.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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