

Certificate of Analysis

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Product Name: LY 171883

Catalog No.: 2140

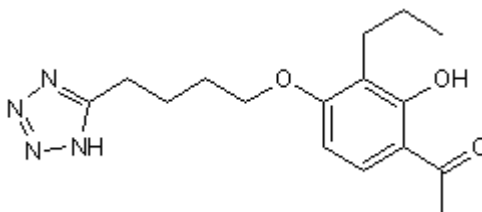
Batch No.: 1

CAS Number: 88107-10-2

IUPAC Name: 1-[2-Hydroxy-3-propyl-4-[4-(1*H*-tetrazol-5-yl)butoxy]phenyl]ethanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₂N₄O₃
Batch Molecular Weight: 318.37
Physical Appearance: Off-white solid
Solubility: DMSO to 101 mM
 ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Ethyl acetate:Hexane [4:1])
Melting Point: Between 134 - 136°C(dec)
HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.36	6.96	17.59
Found	60.05	6.98	17.41

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

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Description:

Selective, orally active leukotriene D₄ (LTD₄) antagonist; inhibits binding of [³H]-LTD₄ to guinea pig lung membranes (K_i = 0.63 μM). Acts as an agonist at peroxisome proliferator-activated receptors (PPARs).

Physical and Chemical Properties:

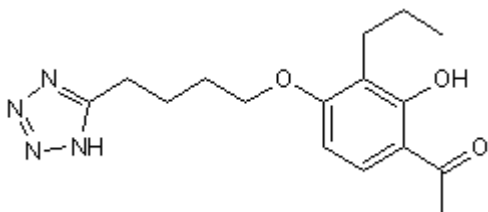
Batch Molecular Formula: C₁₆H₂₂N₄O₃

Batch Molecular Weight: 318.37

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 101 mM

ethanol to 50 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.

References:

Fleisch *et al* (1985) LY171883, 1-less than 2-hydroxy-3-propyl-4-less than 4-(1H-tetrazol-5-yl) butoxy greater than phenyl greater than ethanone, an orally active leukotriene D₄ antagonist. *J.Pharmacol.Exp.Ther.* **233** 148. PMID: 3981452.

Aharony *et al* (1987) Inhibition of 3H-leukotriene D₄ binding to guinea pig lung receptors by the novel leukotriene antagonist ICI 198,615. *J.Pharmacol.Exp.Ther.* **243** 921. PMID: 2826761.

Cannon and Echo (1991) Interaction of LY171883 and other peroxisome proliferators with fatty-acid-binding protein isolated from rat liver. *Biochem.J.* **280** 387. PMID: 1747111.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956