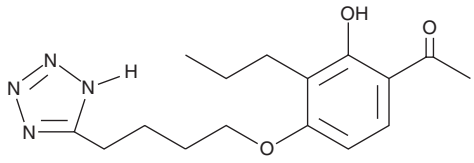
PRODUCT INFORMATION

LY171883

Item No. 70710

CAS Registry No.:	88107-10-2
Formal Name:	1-[2-hydroxy-3-propyl-4-[4-(1H-tetrazol-5-yl)butoxy]phenyl]-ethanone
MF:	$C_{16}H_{22}N_4O_3$
FW:	318.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 218, 284 nm
Supplied as:	A crystalline solid
Storage:	Room temperature
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

LY171883 is supplied as a crystalline solid. A stock solution may be made by dissolving the LY171883 in the solvent of choice, which should be purged with an inert gas. LY171883 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of LY171883 in these solvents is approximately 25 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. For greater aqueous solubility, LY171883 can be directly dissolved in 0.5 M sodium bicarbonate (15 mg/ml) and then diluted with PBS (pH 7.2) to achieve the desired concentration or pH. We do not recommend storing the aqueous solution for more than one day.

Description

LY171883 is a selective, potent, orally active antagonist of the leukotriene D_4 receptor.[1] Dissociation constants (K_B) for LY171883 on guinea pig ileum and parenchyma are 0.07 and 0.34 µM, respectively.[1] LY171883 is an inhibitor of phosphodiesterase obtained from human polymorphonuclear leukocytes (IC_{50} of 22.6 µM) and various guinea pig tissues (IC_{50}s range from 6.9-209 µM).[1] At a concentration of 50-100 µM, LY171883 binds to the PPARγ nuclear receptor, inducing adipogenesis in cultured NIH3T3 fibroblasts.[2,3]

References

1. Fleisch, J.H., Rinkema, L.E., Haisch, K.D., *et al.* LY171883, 1-<2-hydroxy-3-propyl-4-<4-(1H-tetrazol-5-yl) butoxy>phenyl>ethanone, an orally active leukotriene D_4 antagonist. *J. Pharmacol. Exp. Ther.* **233**, 148-157 (1985).
2. Sala, A., Rossoni, G., Buccellati, C., *et al.* Formation of sulphidopeptide-leukotrienes by cell-cell interaction causes coronary vasoconstriction in isolated, cell-perfused heart of rabbit. *Br. J. Pharmacol.* **110(3)**, 1206-1212 (1993).
3. Tontonoz, P., Hu, E., Spiegelman, B.M. Stimulation of adipogenesis in fibroblasts by PPARγ2, a lipid-activated transcription factor. *Cell* **79(7)**, 1147-1156 (1994).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM