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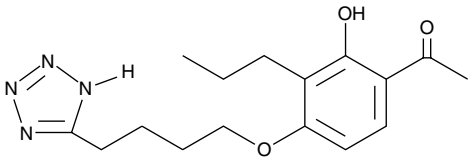
Product Information

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%
Stability: ≥2 years at room temperature
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 218, 284 nm



Laboratory Procedures

For long term storage, we suggest that LY171883 be stored as supplied at room temperature. It should be stable for at least two years.

LY171883 is supplied as a crystalline solid. A stock solution may be made by dissolving the LY171883 in an organic solvent 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 Na_2CO_3 (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.

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. Forman, B.M., Tontonoz, P., Chen, J., *et al.* 15-Deoxy-$\Delta^{12,14}$-prostaglandin J_2 is a ligand for the adipocyte determination factor PPARγ *Cell* **83**, 803-812 (1995).
3. Tontonoz, P., Hu, E., Spiegelman, B.M. Stimulation of adipogenesis in fibroblasts by PPARγ2, a lipid-activated transcription factor. *Cell* **79**, 1147-1156 (1994).

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