



# SZABO SCANDIC

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## Produktinformation



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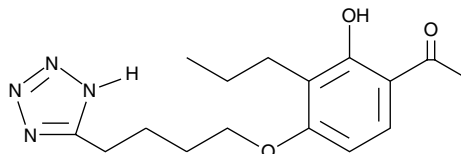
# Product Information



**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<sub>16</sub>H<sub>22</sub>N<sub>4</sub>O<sub>3</sub>  
**FW:** 318.4  
**Purity:** ≥98%  
**Stability:** ≥2 years at room temperature  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 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<sub>2</sub>CO<sub>3</sub> (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<sub>4</sub> receptor.<sup>1</sup> Dissociation constants (K<sub>B</sub>) for LY171883 on guinea pig ileum and parenchyma are 0.07 and 0.34 μM, respectively.<sup>1</sup> LY171883 is an inhibitor of phosphodiesterase obtained from human polymorphonuclear leukocytes (IC<sub>50</sub> of 22.6 μM) and various guinea pig tissues (IC<sub>50</sub>s range from 6.9-209 μM).<sup>1</sup> At a concentration of 50-100 μM, LY171883 binds to the PPARγ nuclear receptor, inducing adipogenesis in cultured NIH3T3 fibroblasts.<sup>2,3</sup>

## 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<sub>4</sub> antagonist. *J. Pharmacol. Exp. Ther.* **233**, 148-157 (1985).
2. Forman, B.M., Tontonoz, P., Chen, J., *et al.* 15-Deoxy-Δ<sup>12,14</sup>-prostaglandin J<sub>2</sub> 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).

## Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/70710](http://www.caymanchem.com/catalog/70710)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

### MATERIAL 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 Material Safety Data Sheet, which has been sent via email to your institution.

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