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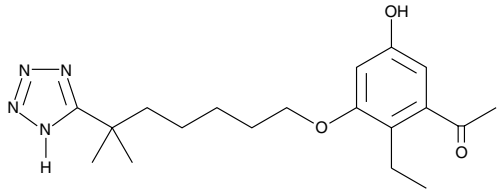
Product Information

LY2552833

Item No. 70715

CAS Registry No.: 117690-79-6
Formal Name: 1-[5-ethyl-2-hydroxy-4-[[6-methyl-6-(1H-tetrazol-5-yl)heptyl]oxy]phenyl]-ethanone
MF: $C_{19}H_{28}N_4O_3$
FW: 360.5
Purity: ≥98%
Stability: ≥1 year at -20˚C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 213, 232, 276, 326 nm



Laboratory Procedures

For long term storage, we suggest that LY255283 be stored as supplied at -20˚C. It should be stable for at least one year.

LY255283 is supplied as a crystalline solid. A stock solution may be made by dissolving the LY255283 in an organic solvent purged with an inert gas. LY255283 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of LY255283 in these solvents is approximately 1, 30, and 50 mg/ml, respectively.

LY255283 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, LY255283 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. LY255283 has a solubility of approximately 100 µg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Antagonists of the chemotactic and inflammatory lipoxygenase product leukotriene B_4 (LTB_4) have been potential drug development targets for several years.[1,2] The tetrazole LY255283 is a competitive antagonist of the BLT_2 receptor. It displaces radiolabeled LTB_4 from ginuea pig lung membrane, with an IC_{50} of about 100 nM.[3] LY255283 exhibits IC_{50} values of ~950 nM and >10 µM at human recombinant BLT_2 and BLT_1 receptors, respectively.[4] LY255283 inhibits eosinophil chemotaxis by 80% at a concentration of 10 µM, and inhibits the binding of radiolabeled LTB_4 to eosinophil membranes with an IC_{50} of 260 nM.[1]

References

1. Richards, I.M., Sun, F.F., Taylor, B.M., *et al.* Contribution of leukotriene B_4 to airway inflammation and the effect of antagonists. *Ann. N. Y. Acad. Sci.* **629**, 274-287 (1991).
2. Taylor, B.M., Crittenden, N.J., Bruden, M.N., *et al.* Biological activity of leukotriene B_4 analogs: Inhibition of guinea pig eosinophil migration *in vitro* by 2,6-disubstituted pyridine analogs U-75,302 and U-75,485. *Prostaglandins* **42**, 211-224 (1991).
3. Silbaugh, S.A., Stengel, P.W., Cockerham, S.L., *et al.* Pulmonary actions of LY255283, a leukotriene B_4 receptor antagonist. *Eur. J. Pharmacol.* **223**, 57-64 (1992).
4. Yokomizo, T., Kato, K., Hagiya, H., *et al.* Hydroxyeicosanoids bind to and activate the low affinity leukotriene B_4 receptor, BLT_2. *J. Biol. Chem.* **276(15)**, 12454-12459 (2001).

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