

# Product Information



**U-75302**

Catalog No. 70705

**CAS Registry No.:** 119477-85-9

**Formal Name:** 6-(6-(3R-hydroxy-1E,5Z-undecadien-1-yl)-2-pyridinyl)-1,5S-hexanediol

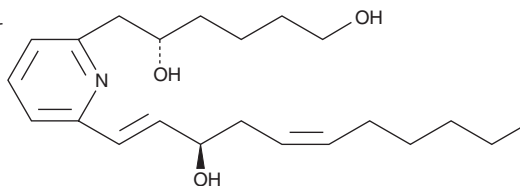
**MF:** C<sub>22</sub>H<sub>35</sub>NO<sub>3</sub>

**FW:** 361.5

**Purity:** ≥98%

**Stability:** ≥1 year at -20°C

**Supplied as:** A solution in ethanol



## Laboratory Procedures

For long term storage, we suggest that U-75302 be stored as supplied at -20°C. It should be stable for at least one year.

U-75302 is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO or dimethyl formamide purged with an inert gas can be used. The solubility of U-75302 in these solvents is approximately 7 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. If an organic solvent-free aqueous solution is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of U-75302 in PBS (pH 7.2) is approximately 80 µg/ml. Store aqueous solutions of U-75302 on ice and use within 12 hours of preparation. Although the aqueous solutions of U-75302 may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

U-75302 is a leukotriene B<sub>4</sub> (LTB<sub>4</sub>) receptor antagonist with a K<sub>i</sub> of 159 nM on guinea pig lung membranes.<sup>1,2</sup> This activity is specific for LTB<sub>4</sub> receptor 1; U-75302 does not antagonize the binding of [<sup>3</sup>H]-LTB<sub>4</sub> to the human LTB<sub>4</sub> receptor 2.<sup>3</sup>

## References

1. Falcone, R.C. and Aharony, D. Modulation of ligand binding to leukotriene B<sub>4</sub> receptors on guinea pig lung membranes by sulfhydryl modifying reagents. *J. Pharmacol. Exp. Ther.* **255**, 565-571 (1990).
2. Lin, A.H., Morris, J., Wishka, D.G., *et al.* Novel molecules that antagonize leukotriene B<sub>4</sub> binding to neutrophils. *Ann. N. Y. Acad. Sci.* **524**, 196-200 (1988).
3. Richards, I.M., Griffin, R.L., Oostveen, J.A., *et al.* Effect of the selective leukotriene B<sub>4</sub> antagonist U-75302 on antigen-induced bronchopulmonary eosinophilia in sensitized guinea pigs. *Ann. Rev. Respir. Dis.* **140**, 1712-1716 (1989).

## Cayman Chemical

### Mailing address

1180 E. Ellsworth Road  
Ann Arbor, MI  
48108 USA

### Phone

(800) 364-9897  
(734) 971-3335

### Fax

(734) 971-3640

### E-Mail

custserv@caymanchem.com

### Web

www.caymanchem.com

**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.

#### WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer's exclusive remedy and Cayman's sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman's option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

Copyright Cayman Chemical Company, 01/15/2010