



# SZABO SCANDIC

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## Produktinformation



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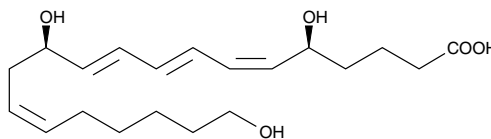
# Product Information



## 20-hydroxy Leukotriene B<sub>4</sub>

Item No. 20190

**CAS Registry No:** 79516-82-8  
**CA Index Name:** 6,8,10,14-Eicosatetraenoic acid, 5,12,20-trihydroxy-, [S-[R\*,S\*-(E,Z,E,Z)]]-  
**MF:** C<sub>20</sub>H<sub>32</sub>O<sub>5</sub>  
**FW:** 352.5  
**Purity:** ≥97%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in ethanol  
**UV/Vis:** λ<sub>max</sub>: 270 nm ε: 50,000  
**Miscellaneous:** Oxygen and light sensitive



### Laboratory Procedures

For long term storage, we suggest that 20-hydroxy Leukotriene B<sub>4</sub> (20-OH LTB<sub>4</sub>) be stored as supplied at -20°C. It should be stable for at least one year.

20-OH LTB<sub>4</sub> 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, dimethyl formamide, or acetonitrile purged with an inert gas or nitrogen can be used. Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Be certain that your buffers are free of oxygen, transition metal ions, and redox active compounds. Also, ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations.

It is difficult to obtain aqueous solutions of 20-OH LTB<sub>4</sub> directly. However, an organic solvent-free solution of 20-OH LTB<sub>4</sub> can be prepared using basic concentrated buffers (pH > 8.0 and ionic strength ≥ 0.1M). Add 400 μl of cold buffer (0°C) per mg of 20-OH LTB<sub>4</sub> and agitate vigorously and/or ultrasonicate. We do not recommend storing the aqueous solution for more than one day.

20-OH LTB<sub>4</sub> is one of the metabolites of LTB<sub>4</sub> by the liver.<sup>1</sup> It inhibits LTB<sub>4</sub>-induced degranulation of human neutrophils (K<sub>i</sub> = 13.3 nM).<sup>2</sup>

### References

1. Shirley, M.A. and Murphy, R.C. Metabolism of leukotriene B<sub>4</sub> in isolated rat hepatocytes. Involvement of 2,4-dienoyl-coenzyme a reductase in leukotriene B<sub>4</sub> metabolism. *J. Biol. Chem.* **265**, 16288-16295 (1990).
2. 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).

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For a list of related products please visit: [www.caymanchem.com/catalog/20190](http://www.caymanchem.com/catalog/20190)

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

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