

## Product Datasheet

### 12-epi Leukotriene B4 (orb1984926)

<b>Catalog Number</b>	orb1984926
<b>Category</b>	Small Molecules
<b>Description</b>	<p>Leukotriene B4 (LTB4) compounds are produced by both enzymatic and non-enzymatic processes. The products of enzymatic origin, via Leukotriene A4 (LTA4) hydrolase, are stereospecifically 12(R). Non-enzymatic hydrolysis products are 50:50 mixtures at C-12, but are almost exclusively trans at C-6. Thus, the non-enzymatic hydrolysis product of LTA4 is 6-trans-12-epi LTB4. 12-epi LTB4 is an isomer which would not be expected to occur in either non-enzymatic hydrolysis products, or in the enzymatic products of LTA4 hydrolase. Compared to LTB4, 12-epi LTB4 has significantly reduced activity for the LTB4 receptor on human neutrophils (IC<sub>50</sub> of 7.5 mM), and on guinea pig lung membranes with a (K<sub>i</sub> of 4.7 mM). 12-epi LTB4 is a weak agonist at both the recombinant human BLT1 and BLT2 receptors, requiring approximately 10 mM for full activation of the receptor.</p>
<b>Target</b>	Others, Leukotriene Receptor
<b>MW</b>	336.472
<b>CAS Number</b>	83709-73-3
<b>Formula</b>	C <sub>20</sub> H <sub>32</sub> O <sub>4</sub>
<b>SMILES</b>	<chem>CCCC\C=C/C[C@H](O)\C=C\C=C\C=C/[C@@H](O)CCCC(O)=O</chem>
<b>Storage</b>	-20°C
<b>Note</b>	For research use only

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