

Product Datasheet

Leukotriene B4 Ethanolamide (orb1984947)

Description	The effects of Leukotriene B4 (LTB4) are mediated by two known receptors, BLT1 and BLT2. LTB4 is a high affinity ligand for BLT1, and many of its pro-inflammatory effects are believed to be transduced through this receptor. The BLT2 is more enigmatic, in that LTB4 is not a high-affinity ligand, nor is it clear that BLT2 activation promotes inflammation. LTB4 ethanolamide (LTB4-EA) is a theoretical 5-LO metabolite of arachidonoyl ethanolamide (AEA). In CHO cells transfected with human BLTR1, LTB4-EA was a potent antagonist with about three times greater affinity for the receptor than LTB4 (Ki = 1.22 nM versus 3.88 nM). LTB4-EA antagonizes the LTB4-induced contractions of guinea pig lung parenchyma with an EC50 of 10 nM. LTB4-EA thus represents a potential endogenous anti-inflammatory compound functioning as a natural antagonist of BLTR1.
Storage	-20°C
Note	For research use only
Formula	C ₂₂ H ₃₇ NO ₄
Purity	98.00%
MW	379.541
CAS Number	877459-63-7
SMILES	<chem>CCCCC\C=C/C[C@@H](O)\C=C\C=C\C=C/[C@@H](O)CCCC(=O)NCCO</chem>
Expiration Date	12 months from date of receipt.

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