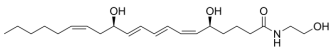
Leukotriene B4 ethanolamide

Cat. No.:	HY-131651
CAS No.:	877459-63-7
Molecular Formula:	$C_{22}H_{37}NO_4$
Molecular Weight:	379.53
Target:	Endogenous Metabolite; Leukotriene Receptor
Pathway:	Metabolic Enzyme/Protease; GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Leukotriene B4 ethanolamide (LTB4 ethanolamide) is an antagonist and a partial agonist for Leukotriene B4 (LTB4) receptor 1 (BLTR1). Leukotriene B4 ethanolamide ameliorates the tumor progression, which is only asscociated with inflammation[1] [2].

IC_{50} & Target

Human Endogenous Metabolite

In Vitro

Leukotriene B4 ethanolamide suppresses the contractile action of LTB 4 in guinea-pig isolated lung parenchyma with K_b of 7.28 nM[1].

Leukotriene B4 ethanolamide (1 μM) acts as a partial agonist for BLT receptor in cell PMN, induces PMN migration with pEC_{50} of 7[2].

Leukotriene B4 ethanolamide (1 μM) stimulates Ca^{2+} release in rat TRPV1-expressing CHO cells with pEC_{50} of 7.28[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Migration Assay [2]

Cell Line:	PMN
Concentration:	1 μM
Incubation Time:	
Result:	Induced migration of neutrophils.

In Vivo

Leukotriene B4 ethanolamide (100 nM/mouse/day for 5 days, s.c.) inhibits the tumor progression associated by inflammation in C57BL/6 mice[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Melanoma tumor in C57BL/6 mouse models[2]
Dosage:	100 nM/mouse
Administration:	s.c., once a day for 5 days
Result:	Inhibited melanoma tumor growth in mice coinjected with apoptotic Tm1 melanoma cells

	and a subtumorigenic dose of Tm1.

REFERENCES

[1]. McHugh D, et al., Novel compounds that interact with both leukotriene B4 receptors and vanilloid TRPV1 receptors. J Pharmacol Exp Ther. 2006 Feb;316(2):955-65.

[2]. Bachi AL, et al., Leukotriene B4 creates a favorable microenvironment for murine melanoma growth. Mol Cancer Res. 2009 Sep;7(9):1417-24.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA