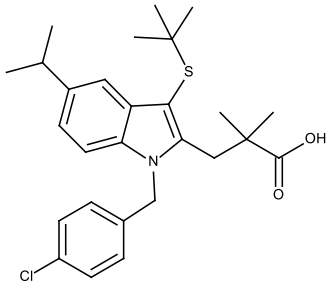
Catalog # 10-1040

MK-886

CAS# 118414-82-7

3-[1-(4-chlorobenzyl)-3-t-butyl-thio-5-isopropylindol-2-yl]-2,2-dimethylpropanoic acid**;** L-663,536

Lot # A101409



Inhibitor of leukotriene biosynthesis(IC_{50} = 2.5 nM in human PMN)[1] via 5-lipoxygenase-activating protein (FLAP) inhibition (IC_{50} = 30 nM)[2]. Also inhibits PPARα (80% inhibition at 10 µM).[3] MK-886 is also an inhibitor of COX-1 (IC_{50} = 8 µM).[4]

1) Gillard *et al* (1989) *L-663,536 (MK-886) (3-[1-(4-chlorobenzyl)-3-t-butyl-thio-5-isopropylindol-2-yl]-2,2-dimethylpropanoic acid), a novel, orally active leukotriene biosynthesis inhibitor*. Can.J.Physiol.Pharmacol. ***67*** 456
2) Evans *et al* (1991) *5-Lipoxygenase-activating protein is the target of a quinoline class of leukotriene synthesis inhibitors* Mol.Pharmacol. ***40*** 22
3) Kehrer *et al* (2001) *Inhibition of peroxisome-proliferator-activated receptor (PPAR)α by MK886*. Biochem.J. ***356*** 899
4) Koeberle *et al.* (2009), *MK-886, an inhibitor of the 5-lipoxygenase-activating protein, inhibits cyclooxygenase-1 activity and suppresses platelet aggregation;* Eur.J.Pharmacol. **608** 84

PHYSICAL DATA

Molecular Weight:	472.08
Molecular Formula:	$C_{27}H_{34}ClNO_2S$
Purity:	>98% by TLC (5% Methanol/methylene chloride; Rf = 0.35) NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Protect from exposure to moisture. Solutions in DMSO may be stored at -20°C for up to 2 months.

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