TOCRIS
a bio-techne brand

Print Date: Nov 12th 2019

Certificate of Analysis

www.tocris.com

Product Name: **MK 886** **Catalog No.: 1311** **Batch No.: 3**

CAS Number: 118414-82-7

IUPAC Name: 1-[(4-Chlorophenyl)methyl]-3-[(1,1-dimethylethyl)thio]-α,α-dimethyl-5-(1-methylethyl)-1*H*-Indole-2-propanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{27}H_{34}ClNO_2S$

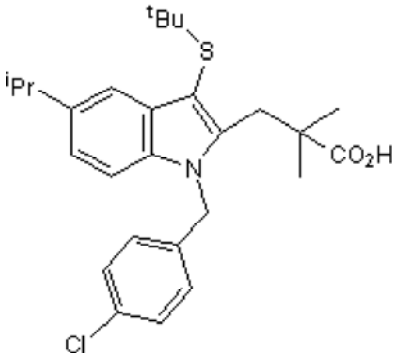
Batch Molecular Weight: 472.08

Physical Appearance: White solid

Solubility: ethanol to 5 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Dichloromethane:Methanol [95:5])

HPLC: Shows 99.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.69	7.26	2.97
Found	68.31	6.95	3.17

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Name: **MK 886** **Catalog No.: 1311** **Batch No.: 3**

CAS Number: 118414-82-7

IUPAC Name: 1-[(4-Chlorophenyl)methyl]-3-[(1,1-dimethylethyl)thio]-α,α-dimethyl-5-(1-methylethyl)-1*H*-Indole-2-propanoic acid

Description:

Potent inhibitor of 5-lipoxygenase-activating protein (FLAP) (IC_{50} = 30 nM for inhibition of [^{125}I]-L-691,678 photoaffinity labelling). Inhibits leukotriene biosynthesis (IC_{50} = 3 nM in human polymorphonuclear leukocytes). Also moderately potent PPARα antagonist (IC_{50} = 0.5-1 μM). Orally active in vivo.

Physical and Chemical Properties:

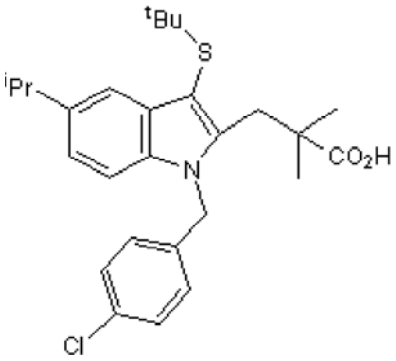
Batch Molecular Formula: $C_{27}H_{34}ClNO_2S$

Batch Molecular Weight: 472.08

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 5 mM
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevent licence or be exempt from restrictions in order to purchase and posess this material.

References:

Kehrer *et al* (2001) Inhibition of peroxisome-proliferator-activated receptor (PPAR)α by MK886. Biochem.J. ***356*** 899. PMID: 11389700.

Mancini *et al* (1992) 5-Lipoxygenase-activating protein is the target of a novel hybrid of two classes of leukotriene biosynthesis inhibitors. Mol.Pharmacol. ***41*** 267. PMID: 1538707.

Dixon *et al* (1990) Requirement of a 5-lipoxygenase-activating protein for leukotriene synthesis. Nature ***343*** 282. PMID: 2300173.

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. PMID: 2548691.

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956