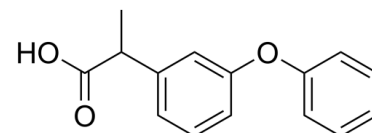


Data Sheet

Product Name:	Fenoprofen
Cat. No.:	CS-W019775
CAS No.:	29679-58-1
Molecular Formula:	C ₁₅ H ₁₄ O ₃
Molecular Weight:	242.274
Target:	Melanocortin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : 100 mg/mL (ultrasonic)



BIOLOGICAL ACTIVITY:

Fenoprofen (LILLY-53858) is a nonsteroidal anti-inflammatory agent (NSAID). Fenoprofen can be used to relieve symptoms of arthritis (osteoarthritis and rheumatoid arthritis), such as inflammation, swelling, stiffness, and joint pain. Fenoprofen is an allosteric enhancer for melanocortin receptors. Fenoprofen also increases ERK1/2 activation^{[1][2]}.

References:

[1]. Tahereh Rezaei, et al. A universal methodology for reliable predicting the non-steroidal anti-inflammatory drug solubility in supercritical carbon dioxide. Sci Rep. 2022 Jan 20;12(1):1043.

[2]. Xiao-Chen Yuan, et al. Fenoprofen-An Old Drug Rediscovered as a Biased Allosteric Enhancer for Melanocortin Receptors. ACS Chem Neurosci. 2019 Mar 20;10(3):1066-1074.

CAIndexNames:

Benzeneacetic acid, α-methyl-3-phenoxy-

SMILES:

O=C(O)C(C)C1=CC=CC(OC2=CC=CC=C2)=C1

Caution: Product has not been fully validated for medical applications. For research use only.

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