

Catalog # 10-2027

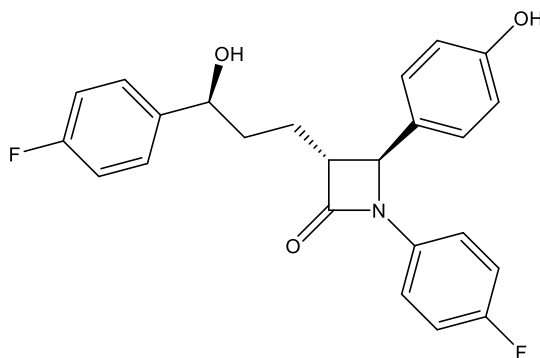
Ezetimibe

CAS# 163222-33-1

(3R,4S)-1-(4-Fluorophenyl)-3-[(3S)-3-(4-fluorophenyl)-3-hydroxypropyl]-4-(4-hydroxyphenyl)azetidine-2-one

SCH 58235; Ezetrol

Lot # X108773



Inhibits cholesterol absorption in the intestine by preventing cholesterol uptake by the Niemann-Pick C1-like 1 (NPC1L1) protein, a cholesterol transporter.¹ Undergoes rapid glucuronidation in the intestine where its glucuronide binds NPC1L1.² Inhibits dengue virus infection in Huh-7 cells by blocking cholesterol transport.³ Ameliorates steatohepatitis by activation of autophagy and inhibition of NLRP3 inflammasome.⁴

- 1) Wang *et al.* (2007), *Regulation of intestinal cholesterol absorption*; Annu. Rev. Physiol., **69** 221
- 2) Garcia-Calvo *et al.* (2005), *The target of ezetimibe is Niemann-Pick C1-Like 1 (NPC1L1)*; Proc. Natl. Acad. Sci. USA, **102** 8132
- 3) Osuna-Ramos *et al.* (2018), *Ezetimibe inhibits dengue virus infection in Huh-7 cells by blocking the cholesterol transporter Niemann-Pick C1-like 1 receptor*, Regulat. Curr. Opin. Cell Biol., **160** 151
- 4) Kim *et al.* (2017), *Ezetimibe ameliorates steatohepatitis via AMP activated protein kinase-TFEB-mediated activation of autophagy and NLRP3 inflammasome inhibition*; Autophagy, **13** 1767

PHYSICAL DATA

Molecular Weight:	409.43
Molecular Formula:	C ₂₄ H ₂₁ F ₂ NO ₃
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Ethanol (up to 15 mg/ml)
Physical Description:	White or off-white solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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