



Catalog # 10-2838

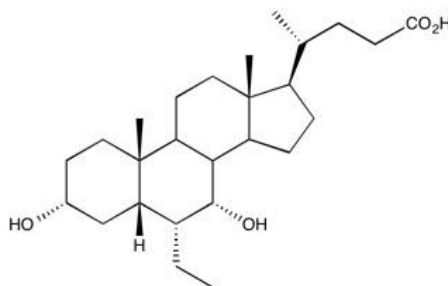
Obetichoic acid

CAS# 459789-99-2

6-Ethylchenodeoxycholic acid; 6-ECDCA

3 α -7 α -dihydroxy-6 α -ethyl-5 β -cholan-24-oic acid

Lot # X101339



A novel cholic acid analog which acts as a potent and selective FXR agonist (EC_{50} = 99 nM). Displays anticholeretic activity in a rat model of cholestasis.¹ Promotes adipocyte differentiation and regulates adipose cell function.² Normalizes insulin sensitivity in a rabbit model of metabolic syndrome.³ A potentially new therapeutic agent for management of non-alcoholic fatty liver disease⁴ and NASH⁵. Displays therapeutic benefit in patients with primary biliary cirrhosis.⁶ Active *in vivo*.

- 1) Fiorucci *et al.* (2005), *Protective effects of 6-ethyl chenodeoxycholic acid, a farnesoid X receptor ligand, in estrogen-induced cholestasis*; J. Pharmacol. Exp. Ther., **313** 604
- 2) Rizzo *et al.* (2006), *The farnesoid X receptor promotes adipocyte differentiation and regulates adipose cell function in vivo*; Mol. Pharmacol., **70** 1164
- 3) Maneschi *et al.* (2013), *FXR activation normalizes insulin sensitivity in visceral preadipocytes of a rabbit model of MetS*; J. Endocrinol., **218** 215
- 4) Carr and Reid (2015), *FXR agonists as therapeutic agents for non-alcoholic fatty liver disease*; Curr. Atheroscler. Rep, **17** 500
- 5) Jahn *et al.* (2016), *Non-Alcoholic Steatohepatitis: From Pathophysiology to Novel Therapies*; Dig. Dis., **34** 356
- 6) Hirschfield *et al.* (2015), *Efficacy of obeticholic acid in patients with primary biliary cirrhosis and inadequate response to ursodeoxycholic acid*; Gastroenterology, **148** 751

PHYSICAL DATA

Molecular Weight:	420.63
Molecular Formula:	C ₂₆ H ₄₄ O ₄
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 35 mg/ml) or Ethanol (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

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