

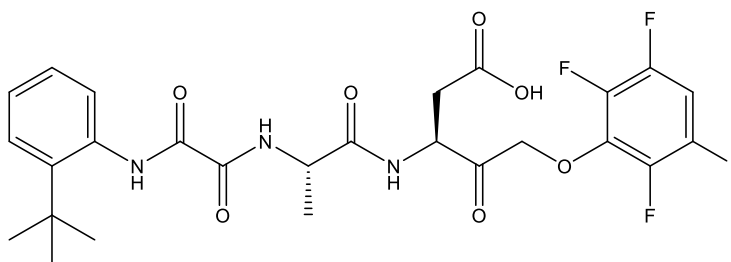
Catalog # 10-4280

Emricasan

CAS# 254750-02-2

(3S)-3-[[[(2S)-2-[[2-(2-*tert*-butylanilino)-2-oxoacetyl]amino]propanoyl]amino]-4-oxo-5-(2,3,5,6-tetrafluorophenoxy)pentanoic acid; IDN-6556; PF-03491390

Lot # FBS2203



Emricasan is a liver-targeted antiapoptotic pan-caspase inhibitor.^{1,2} It has been investigated as a hepatoprotective agent in the treatment of liver ischemia³ and NASH/NAFLD liver injury^{4,5}. Emricasan protected SNB-19 cells against cell death induced by Zika virus strains MR766, FSS13025, and PRVABC59.⁶ Emricasan improves the viability of hPSCs and their differentiated progeny when used in a small molecule cocktail (CEPT) containing chroman 1, polyamines and trans-ISRIB.⁷

- 1) Linton *et al.* (2005), *First-in-class Pan Caspase Inhibitor for the Treatment of Liver Disease*; J. Med. Chem., **48** 6779
- 2) Hoglen *et al.* (2004), *Characterization of IDN-6556 (3-{2-(2-*tert*-Butylphenylaminooxalyl)-amino}-propionylamino)-4-oxo-5-(2,3,5,6-tetrafluorophenoxy)-pentanoic Acid): a Liver-Targeted Caspase Inhibitor*; J. Pharmacol. Exp. Ther., **309** 634
- 3) Hoglen *et al.* (2007), *A caspase inhibitor, IDN-6556, ameliorates early hepatic injury in an ex vivo rat model of warm and cold ischemia*; Liver Transpl., **13** 361
- 4) Barreyro *et al.* (2015), *The pan-caspase inhibitor Emricasan (IDN-5665) decreases liver injury and fibrosis in a murine model of non-alcoholic steatohepatitis*; Liver Int., **35** 953
- 5) Frenette *et al.* (2019), *Emricasan Improves Liver Function in Patients With Cirrhosis and High Model for End-Stage Liver Disease Scores Compared With Placebo*; Clin. Gastroenterol. Hepatol., **17** 774
- 6) Xu *et al.* (2016), *Identification of small molecule inhibitors of Zika virus infection and induced neural cell death via a drug repurposing screen*; Nat. Med., **22** 1101
- 7) Chen *et al.* (2021), *A versatile polypharmacology platform promotes cytoprotection and viability of human pluripotent and differentiated cells*; Nat. Methods, **18** 528

PHYSICAL DATA

Molecular Weight:	569.51
Molecular Formula:	C ₂₆ H ₂₇ F ₄ N ₃ O ₇
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (20 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 may be stored at -20°C for up to 1 month.

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