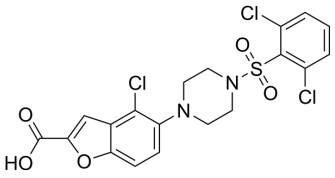
Vonafexor

Cat. No.:	HY-109197
CAS No.:	1192171-69-9
Molecular Formula:	$C_{19}H_{15}Cl_3N_2O_5S$
Molecular Weight:	489.76
Target:	FXR; HBV
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 83.33 mg/mL (170.14 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0418 mL	10.2091 mL	20.4182 mL
	5 mM	0.4084 mL	2.0418 mL	4.0836 mL
	10 mM	0.2042 mL	1.0209 mL	2.0418 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.25 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.25 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Vonafexor (EYP001) is an orally active, non-steroidal and selective FXR agonist. Vonafexor shows significant HBsAg reduction when combined with Peg-IFNα. Vonafexor can be used for anti-HBV research[1][2].

In Vitro

Vonafexor (EYP001) inhibits the HBV replication cycle in HepaRG cells resulting in significant reductions in HBV DNA, HBsAg and HBeAg secretion, with additive effects when combined with Entecavir (HY-13623) or Tenofovir (HY-13910)[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Biochem Pharmacol. 2023 Feb 13;209:115452.

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REFERENCES

[1]. Erken R, et al. Farnesoid X receptor agonist for the treatment of chronic hepatitis B: A safety study. J Viral Hepat. 2021 Dec;28(12):1690-1698.

[2]. Hui RW, et al. Assessing the developing pharmacotherapeutic landscape in hepatitis B treatment: a spotlight on drugs in phase II clinical trials. Expert Opin Emerg Drugs. 2022 Jun;27(2):127-140.

[3]. Joly S, et al. The selective FXR agonist EYP001 is well tolerated in healthy subjects and has additive anti-HBV effect with nucleoside analogues in HepaRG cells. J Hepatol 66(1):S690.

[4]. Fiorucci S,et al. Bile acid modulators for the treatment of nonalcoholic steatohepatitis (NASH) [published online ahead of print, 2020 Jun 19]. Expert Opin Investig Drugs. 2020;1-10.

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

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