## **Choline Fenofibrate**

Cat. No.:	HY-14739	-0 0
CAS No.:	856676-23-8	0_0
Molecular Formula:	C <sub>22</sub> H <sub>28</sub> CINO <sub>5</sub>	0
Molecular Weight:	421.91	
Target:	PPAR; COX	
Pathway:	Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor; Immunology/Inflammation	
Storage:	4°C, sealed storage, away from moisture	
5	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

## SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 100 mg/mL (237.02 mM; Need ultrasonic) Ethanol : 33.33 mg/mL (79.00 mM; Need ultrasonic) DMSO : 20 mg/mL (47.40 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.3702 mL	11.8509 mL	23.7017 mL	
		5 mM	0.4740 mL	2.3702 mL	4.7403 mL	
		10 mM	0.2370 mL	1.1851 mL	2.3702 mL	
	Please refer to the sol	lubility information to select the ap	propriate solvent.			
In Vivo	1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution					
	2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution					
	3. Add each solvent one by one: 10% EtOH >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution					
	4. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2 mg/mL (4.74 mM); Clear solution					
	5. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2 mg/mL (4.74 mM); Clear solution					

BIOLOGICAL ACTIV	
Diologicalement	
Description	Choline Fenofibrate (ABT-335), a choline salt of Fenofibric acid (HY-B0760), releases free Fenofibric acid in the
	gastrointestinal tract. Fenofibric acid is a PPAR activator with antihyperlipidemic effect <sup>[1]</sup> .

## Product Data Sheet



IC <sub>50</sub> & Target	PPAR <sup>[1]</sup>		
In Vivo	Choline Fenofibrate exhibits excellent absolute oral bioavailability (rat 93.4%) and C <sub>max</sub> (rat 7944.2 ng/mL administration (rat 4mg/kg) <sup>[1]</sup> . Choline Fenofibrate exhibits terminal elimination half-life (rat 5.4 h) following intravenous injection (rat 4m MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Male Sprague-Dawley (SD) rats (200-250g) <sup>[1]</sup>	
	Dosage:	4 mg/kg (Pharmacokinetic Analysis)	
	Administration:	Intravenous injection and oral administration	
	Result:	Oral bioavailability (93.4%), C <sub>max</sub> (7944.2 ng/mL), T <sub>1/2</sub> (5.4 h).	

## REFERENCES

[1]. Xudan Wei, et al. Absolute oral bioavailability of fenofibric acid and choline fenofibrate in rats determined by ultra-performance liquid chromatography tandem mass spectrometry. Biomed Chromatogr. 2017 Apr;31(4).

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

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