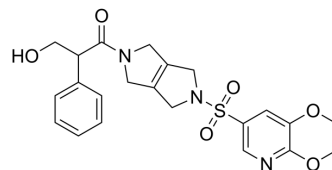


(Rac)-Etavopivat

Cat. No.:	HY-139573A		
CAS No.:	2622070-93-1		
Molecular Formula:	C ₂₂ H ₂₃ N ₃ O ₆ S		
Molecular Weight:	457.5		
Target:	Pyruvate Kinase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (218.58 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1858 mL	10.9290 mL	21.8579 mL
	5 mM	0.4372 mL	2.1858 mL	4.3716 mL
	10 mM	0.2186 mL	1.0929 mL	2.1858 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (5.46 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (5.46 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (5.46 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

(Rac)-Etavopivat ((Rac)-FT-4202) is an isomer of [Etavopivat](#) (HY-139573). Etavopivat is an orally active erythrocyte pyruvate kinase-R (PKR) activator that can be used in studies of sickle cell disease and other haemoglobinopathies^[1].

In Vitro

Etavopivat (20 μM, 4 h) improves haemoglobin-oxygen affinity and reduces the sickle point (PoS) in human red blood cells^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Etavopivat (oral gavage, 3-22 mg/kg, once daily, 5 days) causes an increase in 2,3-DPG and ATP in crab-eating monkeys at doses of 8 mg/kg and 22 mg/kg^[1].

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

REFERENCES

[1]. Patricia Schroeder, et al. Etavopivat, a Pyruvate Kinase Activator in Red Blood Cells, for the Treatment of Sickle Cell Disease. J Pharmacol Exp Ther. 2022 Mar;380(3):210-219.

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

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