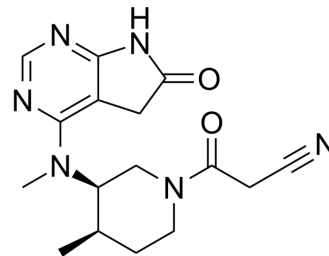


Tofacitinib metabolite-1

Cat. No.:	HY-136336
CAS No.:	1640971-51-2
Molecular Formula:	C ₁₆ H ₂₀ N ₆ O ₂
Molecular Weight:	328.37
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (304.53 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.0453 mL	15.2267 mL	30.4535 mL
				5 mM	0.6091 mL	3.0453 mL	6.0907 mL
				10 mM	0.3045 mL	1.5227 mL	3.0453 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: ≥ 2.5 mg/mL (7.61 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.61 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (7.61 mM); Clear solution; Need ultrasonic						

BIOLOGICAL ACTIVITY

Description	Tofacitinib metabolite-1 is a metabolite of Tofacitinib, a JAK inhibitor. Tofacitinib metabolite-1 can be used in the pharmacokinetics and metabolism studies of tofacitinib ^{[1][2]} .
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CUSTOMER VALIDATION

- J Hepatol. 2021 Nov;75(5):1072-1082.

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REFERENCES

- [1]. Martin E Dowty, et al. The Pharmacokinetics, Metabolism, and Clearance Mechanisms of Tofacitinib, a Janus Kinase Inhibitor, in Humans. *Drug Metab Dispos.* 2014 Apr;42(4):759-73.
- [2]. Matthias Gehringer, et al. Novel Hinge-Binding Motifs for Janus Kinase 3 Inhibitors: A Comprehensive Structure-Activity Relationship Study on Tofacitinib Bioisosteres. *ChemMedChem.* 2014 Nov;9(11):2516-27.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA