Argatroban

®

MedChemExpress

Cat. No.:	HY-B0375	
CAS No.:	74863-84-6	
Molecular Formula:	C ₂₃ H ₃₆ N ₆ O ₅ S	1.
Molecular Weight:	508.63	
Target:	Thrombin	
Pathway:	Metabolic Enzyme/Protease	
Storage:	4°C, protect from light	
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)	

Product Data Sheet

<mark>, ∼</mark>NH

NH ОО=S=0 ОН | Н

 H_2N

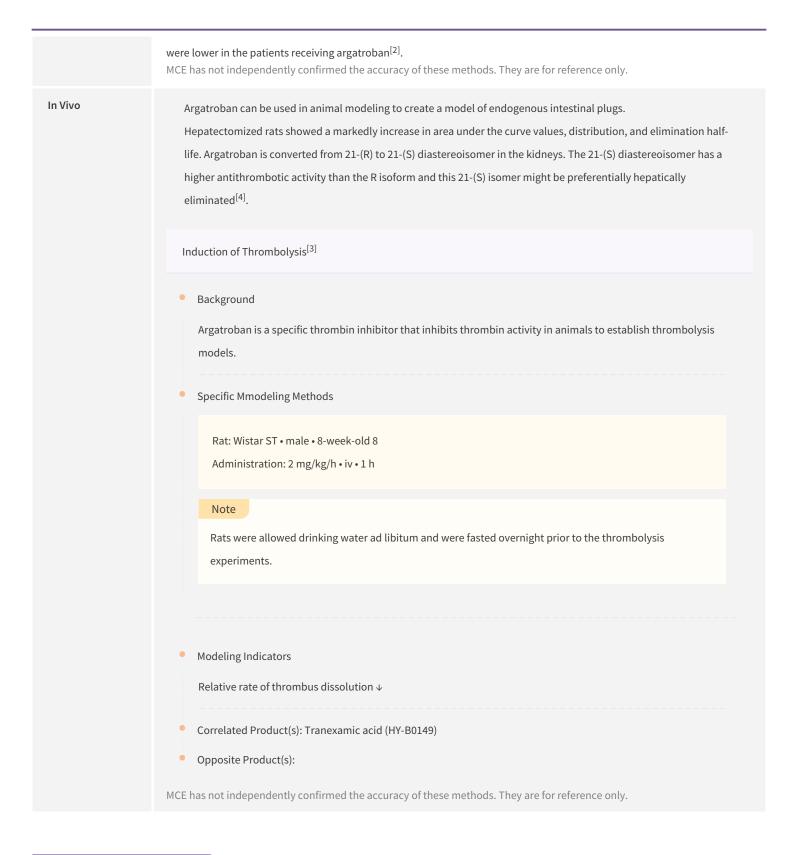
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SOLVENT & SOLUBILITY

Prepa	DMSO : 100 mg/mL (196.61 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	1.9661 mL	9.8303 mL	19.6607 mL		
		5 mM	0.3932 mL	1.9661 mL	3.9321 mL		
		10 mM	0.1966 mL	0.9830 mL	1.9661 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.92 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.92 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.92 mM); Clear solution						

BIOLOGICAL ACTIVITY				
Description	Argatroban (MD-805) is a direct, selective thrombin inhibitor.			
IC ₅₀ & Target	Thrombin ^[1] .			
In Vitro	Argatroban (MD-805) may have a complementary effect for preventing thrombus formation without aggravating bleeding tendency because of its monotarget specificity to thrombin. Administration (0.5 to 2 micrograms/kg/min) of Argatroban (MD-805) is a safe anticoagulant for left heart bypass in repairs of traumatic aortic rupture associated with multiple organ injuries ^[1] . Argatroban (MD-805), as compared with heparin, appears to enhance reperfusion with TPA in patients with AMI, particularly in those patients with delayed presentation. The incidences of major bleeding and adverse clinical outcome			



CUSTOMER VALIDATION

- Antiviral Res. 2023 Apr 17;105606.
- Int J Mol Sci. 2021, 22(7), 3323.
- Rheinische Friedrich-Wilhelms-Universität Bonn. 2023 May 31.

REFERENCES

[1]. Kawada, T., et al., Argatroban, an attractive anticoagulant, for left heart bypass with centrifugal pump for repair of traumatic aortic rupture. Jpn J Thorac Cardiovasc Surg, 1999. 47(3): p. 104-9.

[2]. Jang, I.K., et al., A multicenter, randomized study of argatroban versus heparin as adjunct to tissue plasminogen activator (TPA) in acute myocardial infarction: myocardial infarction with novastan and TPA (MINT) study. J Am Coll Cardiol, 1999. 33(7): p. 1879-85.

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

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