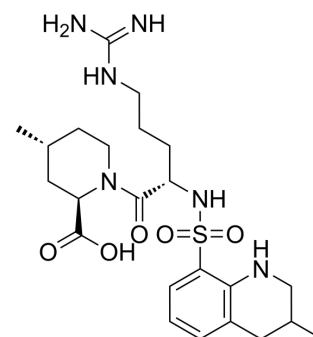


Argatroban

Cat. No.:	HY-B0375
CAS No.:	74863-84-6
Molecular Formula:	C ₂₃ H ₃₆ N ₆ O ₅ S
Molecular Weight:	508.63
Target:	Thrombin
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Argatroban (MD-805) is a direct, selective thrombin inhibitor.
IC₅₀ & Target	Thrombin ^[1] .
In Vitro	<p>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 were lower in the patients receiving argatroban^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
In Vivo	<p>Argatroban can be used in animal modeling to establish endogenous intestinal thrombus model.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

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

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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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