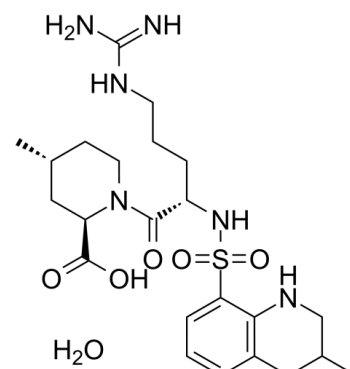


## Data Sheet

<b>Product Name:</b>	Argatroban (monohydrate)
<b>Cat. No.:</b>	CS-4257
<b>CAS No.:</b>	141396-28-3
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>38</sub> N <sub>6</sub> O <sub>6</sub> S
<b>Molecular Weight:</b>	526.65
<b>Target:</b>	Thrombin
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Solubility:</b>	DMSO : ≥ 100 mg/mL (189.88 mM)



### BIOLOGICAL ACTIVITY:

Argatroban (monohydrate) (MD-805 (monohydrate)) is a direct, selective thrombin inhibitor. IC<sub>50</sub> & Target: Thrombin<sup>[1]</sup>. **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<sup>[1]</sup>. 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].

### 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.

### CAIndexNames:

2-Piperidinecarboxylic acid, 1-[(2S)-5-[(aminoiminomethyl)amino]-1-oxo-2-[[[(1,2,3,4-tetrahydro-3-methyl-8-quinolyl)sulfonyl]amino]pentyl]-4-methyl-, hydrate (1:1), (2R,4R)

### SMILES:

O=C([C@@H]1N(C([C@@H](NS(=O)(C2=CC=CC3=C2NCC(C)C3)=O)CCNC(N)=N)=O)CC[C@H](C)C1)O.O

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

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