Product Name: Argatroban
Product Number: A171
CAS Number: 74863-84-6
Molecular Formula: C23H36N6O5S
Molecular Weight: 508.63
Form: Powder
Appearance: White to off-white crystalline powder
Solubility: Slightly soluble in methanol, ethanol, DMF and DMSO.
Source: Synthetic
Storage Conditions: -20°C
Description: Argatroban is a synthetic small molecule and potent thrombin inhibitor that functions as an anticoagulant agent. It can protect against thrombosis by limiting clot formation.
Mechanism of Action: Argatroban is able to inhibit thrombin directly and univalently. The Ki values against thrombin range from 5 nM to 39 nM.
Cancer Applications: Argatroban was found to reduce breast cancer malignancy and metastasis in MDA-MB-468 human breast cancer cells that were stably transfected to overexpress osteopontin. Argatroban treatment of 25 µg/ml resulted in decreased cell growth, colony-forming ability, adhesion, and migration (Schulze et al, 2008).
References: