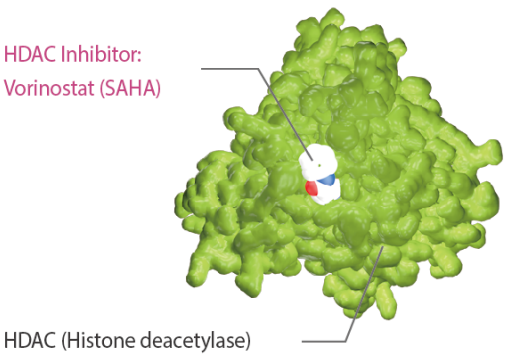
Thrombin



Thrombin is a serine protease that in humans is encoded by the F2 gene. Thrombin is an intriguing coagulation protease demonstrating an array of effects on endothelial cells, vascular smooth muscle cells (VSMC), monocytes, and platelets, all of which are involved in the pathophysiology of atherosclerosis. There is mounting evidence that thrombin acts as a powerful modulator of many processes like regulation of vascular tone, permeability, migration and proliferation of VSMC, recruitment of monocytes into the atherosclerotic lesions, induction of diverse pro-inflammatory markers, and all of these are related to the progression of cardiovascular disease. Recent studies in transgenic mice models indicate that the deletion of the natural thrombin inhibitor heparin cofactor II promotes an accelerated atherogenic state. The combined evidence points to thrombin as a pivotal contributor to vascular pathophysiology. Considering the clinical development of selective anticoagulants including direct thrombin inhibitors.

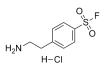
Thrombin Inhibitors & Modulators

AEBSF hydrochloride

Cat. No.: HY-12821

Bioactivity: AEBSF hydrochloride is an irreversible inhibitor of **serine proteases**, such as chymotrypsin, kallikrein, plasmin, thrombin, and trypsin.

Purity: 99.44%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 100 mg, 200 mg

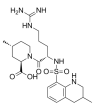


Argatroban

(MD-805; MCI-9038; Argipidine) Cat. No.: HY-B0375

Bioactivity: Argatroban (MD-805) is a direct, selective thrombin inhibitor.

Purity: >98%
Clinical Data: Launched
Size: 10 mg, 50 mg, 100 mg

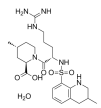


Argatroban monohydrate (MD-805 (monohydrate); MCI-9038 (monohydrate); Argipidine (monohydrate))

Cat. No.: HY-B0375A

Bioactivity: Argatroban (monohydrate) (MD-805 (monohydrate)) is a direct, selective thrombin inhibitor.

Purity: 99.95%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

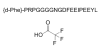


Bivalirudin Trifluoroacetate

Cat. No.: HY-15664

Bioactivity: Bivalirudin Trifluoroacetate is a synthetic 20 residue peptide which reversibly inhibits thrombin. IC50 Value: Target: thrombin in vitro: Eptifibatide (8 mg/mL) added together with a low (70 ng/mL) concentration of bivalirudin (a direct thrombin inhibitor) effectively (approximately 90%) reduced...

Purity: 99.76%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

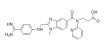


Dabigatran

(BIBR 953; BIBR 953ZW) Cat. No.: HY-10163

Bioactivity: Dabigatran(BIB-953; BIBR 953ZW) is a reversible and selective, direct thrombin inhibitor (DTI) with Ki value of 4.5 nM. IC50 Value: 4.5 nM (Ki); 10 nM(Thrombin-induced platelet aggregation) [1] Target: thrombin in vitro: Dabigatran selectively and reversibly inhibited human thrombin(Ki: 4.5...

Purity: 96.12%
Clinical Data: Phase 4
Size: 5 mg, 10 mg, 50 mg, 100 mg

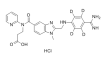


Dabigatran D4 hydrochloride

(BIBR-953 D4 hydrochloride) Cat. No.: HY-10163AS

Bioactivity: Dabigatran D4 hydrochloride is deuterium labeled Dabigatran, which is a reversible and selective, direct thrombin inhibitor (DTI) with Ki value of 4.5 nM.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

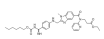


Dabigatran etexilate

(BIBR 1048) Cat. No.: HY-10274

Bioactivity: Dabigatran etexilate(BIBR-1048) is the orally active prodrug of dabigatran; Dabigatran is a reversible and selective, direct thrombin inhibitor (DTI) with Ki value of 4.5 nM.

Purity: 99.37%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

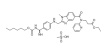


Dabigatran etexilate mesylate

(BIBR 1048MS; Dabigatran etexilate methanesulfonate) Cat. No.: HY-10274A

Bioactivity: Dabigatran etexilate mesylate (BIBR 1048MS) is the orally active prodrug of dabigatran. Dabigatran is a reversible and selective, direct thrombin inhibitor (DTI) with Ki value of 4.5 nM.

Purity: 99.60%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg, 1 g

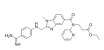


Dabigatran ethyl ester

Cat. No.: HY-17378

Bioactivity: ethyl ester of Dabigatran, which is an emerging oral anticoagulant which is a direct inhibitor of thrombin activity.

Purity: 99.26%
Clinical Data: Phase 4
Size: 5 mg, 10 mg, 50 mg, 100 mg

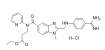


Dabigatran ethyl ester hydrochloride

Cat. No.: HY-77521

Bioactivity: Dabigatran ethyl ester hydrochloride is a potent inhibitor of ribosyldihydronicotinamide dehydrogenase (**NQO2**) with an **IC_{50}** value of 0.8 μM and a **thrombin** inhibitor.

Purity: 99.36%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

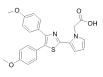


Desethyl KBT-3022

Cat. No.: HY-U00039

Bioactivity: Desethyl KBT-3022 is the main active metabolite of the new antiplatelet agent, KBT-3022.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 20 mg



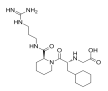
Inogatran

(H-314-27)

Cat. No.: HY-19660

Bioactivity: Inogatran is a synthetic **thrombin** inhibitor, developed for the possible treatment and prophylaxis of arterial and venous thrombotic diseases.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg



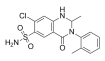
Metolazone

(SR-720-22)

Cat. No.: HY-B0209

Bioactivity: Metolazone(Zaroxolyn) is primarily used to treat congestive heart failure and high blood pressure. Target: Others Metolazone is a thiazide-like diuretic marketed under the brand names Zytanix from Zydus Cadila, Zaroxolyn, and Mykrox. It is primarily used to treat congestive heart failure and...

Purity: 99.32%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 50 mg, 100 mg



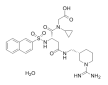
Napsagatran hydrate

(Ro 46-6240 hydrate; Ro 46-6240/010 hydrate)

Cat. No.: HY-15759A

Bioactivity: Napsagatran hydrate is a novel and specific **thrombin** inhibitor.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg

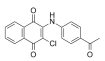


NQ301

Cat. No.: HY-101054

Bioactivity: NQ301 is an antithrombotic agent; inhibits collagen-challenged rabbit platelet aggregation with an IC_{50} of 10 mg/mL.

Purity: 98.74%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

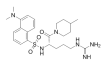


OM-189

Cat. No.: HY-100245

Bioactivity: OM-189 is a selective synthetic **thrombin** inhibitor.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg



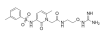
RWJ-445167

(3DP-10017)

Cat. No.: HY-19373

Bioactivity: RWJ-445167 is a dual inhibitor of **thrombin** and **factor Xa** with K_i of 4.0 nM and 230 nM, respectively, exhibiting potent antithrombotic activity.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg



Sfllrnpndkyepf

Cat. No.: HY-P1000

Bioactivity: SFLLRNPNDKYEPF is a synthetic **thrombin** receptor agonist peptide.

Purity: 98.22%
Clinical Data: No Development Reported
Size: 10mM x 1mL in Water, 1 mg, 5 mg, 10 mg

SFLLRNPNDKYEPF

Thrombin

Cat. No.: HY-114164

Bioactivity: Thrombin is a trypsin-like allosteric serine protease that has a fundamental role in the clotting cascade.

Purity:
Clinical Data: No Development Reported
Size: 500u g

Thrombin

Thrombin inhibitor 1

Cat. No.: HY-U00370

Bioactivity: Thrombin inhibitor 1 is a potent **thrombin** inhibitor (K_i=0.66 nM, 2xaPTT=0.43 μM).

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg