Plasminogen activator inhibitor-1 (PAI-1) is the primary inhibitor of tissue-type plasminogen activator (tPA) and urokinase-type plasminogen activator (uPA), and functionally serves to suppress tissue and plasma fibrinolysis. PAI-1 is a member of the serpin family of proteins and exists in multiple conformations of which a minor component, the “active” form, exhibits inhibitory effects against tPA and uPA. PAI-1 is an endogenous inhibitor of urokinase-type plasminogen activator (uPA), and its expression is regulated by a number of intrinsic factors (e.g., cytokines and growth factors) and extrinsic factors (e.g., cellular stress).

PAI-1 seems to play a pivotal role in tumor growth and may represent a potential therapeutic target for bladder cancer.
# PAI-1 Inhibitors & Modulators

## Loureirin B

**Cat. No.: HY-N1504**

**Bioactivity:** Loureirin B, a flavonoid extracted from *Dracaena cochinchinesis*, is an inhibitor of plasminogen activator inhibitor-1 (PAI-1), with an IC$_{50}$ of 26.10 μM. Loureirin B also inhibits $K_{ATP}$, the phosphorylation of ERK and JNK.

**Purity:** 99.99%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 5 mg

## Tiplaxtinin

**Cat. No.: HY-15253**

**Bioactivity:** Tiplaxtinin is a selective and orally efficacious inhibitor of plasminogen activator inhibitor-1 (PAI-1) with IC$_{50}$ of 2.7 μM.

**Purity:** 97.60%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

## TM5275 sodium

**Cat. No.: HY-100447**

**Bioactivity:** TM5275 sodium is a plasminogen activator inhibitor (PAI-1) with an IC$_{50}$ of 6.95 μM.

**Purity:** 99.05%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

## TM5441

**Cat. No.: HY-101761**

**Bioactivity:** TM5441 is a plasminogen activator inhibitor-1 (PAI-1); inhibits several tumor cell lines with IC$_{50}$ values between 9.7 and 60.3 μM.

**Purity:** 98.34%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

## ZK824859

**Cat. No.: HY-114330**

**Bioactivity:** ZK824859 is an oral available and selective urokinase plasminogen activator (uPA) inhibitor with IC$_{50}$ of 79 nM, 1580 nM and 1330 nM for human uPA, tPA, and plasmin, respectively [1].

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 5 mg, 10 mg, 50 mg, 100 mg

## ZK824859 hydrochloride

**Cat. No.: HY-114330A**

**Bioactivity:** ZK824859 hydrochloride is an oral available and selective urokinase plasminogen activator (uPA) inhibitor with IC$_{50}$ of 79 nM, 1580 nM and 1330 nM for human uPA, tPA, and plasmin, respectively [1].

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg