# Human PAI-1/Serpin E1, C-His Tag Protein

## HA210982

| | |
|---|---|
| **Product name:** | Human PAI-1/Serpin E1, C-His Tag |
| **Species reactivity:** | Human |
| **Bio-Activity:** | Testing in progress. |
| **Protein construction description:** | A DNA sequence encoding the human PAI-1/Serpin E1 protein (P05121-1) (Val 24-Pro 402) was expressed with a His tag at the C-terminus. |

**Background:** This gene encodes a member of the serine proteinase inhibitor (serpin) superfamily. This member is the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), and hence is an inhibitor of fibrinolysis. The protein also functions as a component of innate antiviral immunity. Defects in this gene are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency), and high concentrations of the gene product are associated with thrombophilia. Serine protease inhibitor. Inhibits TMPRSS7. Is a primary inhibitor of tissue-type plasminogen activator (PLAT) and urokinase-type plasminogen activator (PLAU). As PLAT inhibitor, it is required for fibrinolysis down-regulation and is responsible for the controlled degradation of blood clots. As PLAU inhibitor, it is involved in the regulation of cell adhesion and spreading. Acts as a regulator of cell migration, independently of its role as protease inhibitor. It is required for stimulation of keratinocyte migration during cutaneous injury repair 8. It is involved in cellular and replicative senescence. Plays a role in alveolar type 2 cells senescence in the lung). Is involved in the regulation of cementogenic differentiation of periodontal ligament stem cells, and regulates odontoblast differentiation and dentin formation during odontogenesis.

| | |
|---|---|
| **Purity:** | >95% as determined by SDS-PAGE. |
| **Endotoxin:** | Less than 1.0 EU per μg by the LAL method. |
| **Fragment region:** | PAI-1/Serpin E1 (24-402) |
| **Source:** | HEK293 |
| **Accession:** | P05121-1 |
| **Predicted molecular mass:** | 44.1 kD |
| **Formulation:** | Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol. |
| **Reconstitution:** | Reconstitute at 250 μg/ml in sterile water. |
| **Storage:** | Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20℃ to -80℃ It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles. |

## Images

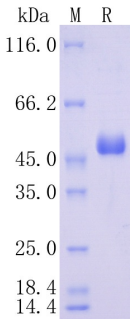


**Fig1:** Protein on SDS-PAGE under reducing (R) condition.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".