

Recombinant Human PAI-1
Catalog # PBG10351**Specification**

Recombinant Human PAI-1 - Product Information**Recombinant Human PAI-1 - Additional Information****Description**

Plasminogen Activator Inhibitor-1 (PAI-1, Serpin E1) is a member of the serpin family of serine protease inhibitors, and is the primary inhibitor of urokinase and tissue plasminogen activator (tPA). PAI-1 is expressed predominantly in adipose, liver and vascular tissues, and is also produced by certain tumor cells. Elevated levels of PAI-1 are associated with obesity, diabetes and cardiovascular disease, and increased production of PAI-1 is induced by various obesity related factors such as TNF α , glucose, insulin, and very-low-density lipoprotein. The obesity related elevation of PAI-1 levels along with the consequential deficiency in plasminogen activators can lead directly to increased risk of thrombosis and other coronary diseases. Accordingly, PAI-1 has been implicated as an important molecular link between obesity and coronary disease. PAI-1 can also specifically bind vitronectin (VTN) to form a stable active complex with an increased circulatory half life relative to free PAI-1. Recombinant human PAI-1 is a 42.7 kDa protein containing 379 amino acid residues.

Biological Activity

Determined by its inhibitory effect against single chain tPA induced cleavage of a chromogenic substrate in Imidazole Buffer at 37^oC. Half maximal inhibition against 1.0 μ g/ml of single chain tPA was obtained at a concentration of 2.0 μ g/ml.

Authenticity

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin

Endotoxin level is <0.1 ng/ μ g of protein (<1EU/ μ g).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage

-20°C

Precautions

Recombinant Human PAI-1 is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human PAI-1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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