

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.

BiologicalActivity

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 $1.0 \mu g/ml$ of single chain tPA was obtained at a concentration of $2.0 \mu g/ml$.

Authenticity

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

Endotoxin

Endotoxin level is $<0.1 \text{ ng/} \mu\text{g}$ of protein ($<1EU/\mu\text{g}$).

Protein Content

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

Storage

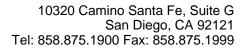
-20°C

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
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Recombinant Human PAI-1 - Images