

PAI-1 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	SERPINE1;PAI-1;PAI1;PAI;serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1;PLANH1
Protein Construction:	Val24-Pro402
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P05121-1
Molecular Weight:	43.86 kDa (Predicted); 45-55 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Measured by its ability to inhibit uPA cleavage of a peptide substrate, N-carbobenzyloxy-Gly-Gly-Arg-7-amido-4-methylcoumarin (Z-GGR-AMC). The IC50 value is < 35 nM. (QC Test)
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μm filtered solution in 50 mM NaAC, 0.1M NaCl, 100mM L-arginine (pH 5.5).

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

PAI-1 (plasminogen activator inhibitor-1) is a member of plasminogen cascade with an inhibitory role in plasmin activation. PAI-1 is an important regulator of the fibrinolytic process and levels of this antifibrinolytic protein are elevated in diabetes and insulin resistant states.

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