

Datasheet: PHP199

Description:	RECOMBINANT HUMAN PAI-1
Name:	PAI-1
Other names:	SERPINE1
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Functional Assays	■			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified recombinant protein - lyophilised
Reconstitution	Reconstitute with 100ul distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For extended storage, the addition of 0.1% BSA is recommended.
Preparation	Purified recombinant PAI-1 expressed in <i>E.coli</i> .
Buffer Solution	10mM Sodium Phosphate
Preservative Stabilisers	None present
Endotoxin Level	<1EU/ug
Approx. Protein Concentrations	0.1mg/ml after reconstitution
External Database Links	UniProt: P05121 Related reagents Entrez Gene:

Synonyms	PAI1, PLANH1
Product Information	PAI-1 (plasminogen activator inhibitor-1) is a serine protease inhibitor and member of the serpin family, which acts as the primary inhibitor of tissue plasminogen activator (tPA) and urokinase plasminogen activator (uPA), and hence fibrinolysis. Increased levels of PAI-1 are associated with diabetes, cardiovascular disease and an increased occurrence of thrombosis in obesity, and can be induced by obesity related factors including insulin, glucose and VLDL (very-low-density lipoprotein).
Molecular Weight	42.7kD (379 amino acid residues).
Activity	Determined by its inhibitory effect against single chain tPA induced cleavage of a chromogenic substrate in Imidazole Buffer at 37°C. Half maximal inhibition against 1.0 µg/ml of single chain tPA was obtained at a concentration of 2.0 µg/ml.
Purity	>95% by SDS PAGE and HPLC analysis.
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	3 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet Documentation #10527 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf
Regulatory	For research purposes only

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