

Active Recombinant Human SERPINE1 protein, His-tagged

Cat. No. SERPINE1-3008H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human SERPINE1 protein(P05121)(24~402 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	24-402 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	<p>Plasminogen Activator Inhibitor 1 (PAI1) is a member of the Serpin superfamily of serine protease inhibitors, Serpin E1/PAI 1 is the principal inhibitor of urokinase type plasminogen activator (uPA) and tissue type PA. As important regulators of extracellular matrix remodeling, uPA and PAI 1 play a major role in many processes such as angiogenesis, tumor invasion and obesity. Besides, Vitronectin (VTN) has been identified as an interactor of PAI1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PAI1 and recombinant human VTN. Briefly, PAI1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 μwere then transferred to VTN-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-PAI1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of</p>

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substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of PAI1 and VTN was shown, and this effect was in a dose dependent manner, the EC50 was approximately 4.47 ug/mL.

Molecular Mass	44.4kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	SERPINE1 serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1 [Homo sapiens]
Official Symbol	SERPINE1
Synonyms	SERPINE1; serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; PAI1, PLANH1, serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; plasminogen activator inhibitor 1; PAI; plasminogen activator inhibitor; type I; serpin E1; endothelial plasminogen activator inhibitor; serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; PAI1; PAI-1; PLANH1;

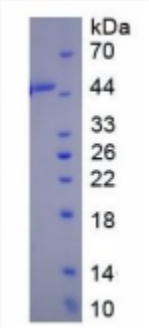
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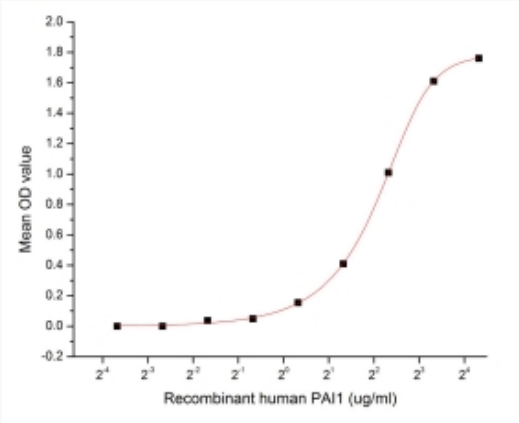
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Gene ID	5054
mRNA Refseq	NM_000602
Protein Refseq	NP_000593
MIM	173360
UniProt ID	P05121

SDS-PAGE



Activity



Recombinant human PAI1 (ug/ml)	Mean OD value
2 ⁻⁴	0.0
2 ⁻³	0.0
2 ⁻²	0.05
2 ⁻¹	0.1
2 ⁰	0.2
2 ¹	0.4
2 ²	1.0
2 ³	1.6
2 ⁴	1.8

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