Active Plasminogen Activator Inhibitor 1 (PAI1)

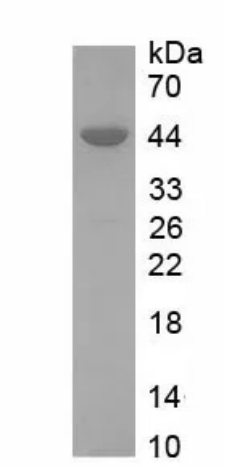
Catalog#:PHH12391

概述（Summary）

别称（Alternative Names）	SERPINE1; PLANH1; Serpin Peptidase Inhibitor Clade E Member 1; Nexin,Plasminogen Activator Inhibitor Type 1 Serpin E1; Endothelial plasminogen activator inhibitor
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Val24-Pro402】
Accession #	P05121
表达宿主（Host）	293F
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	44.4 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Serine protease inhibitor. Inhibits TMPRSS7. Is a primary inhibitor of tissue-type plasminogen activator (PLAT) and urokinase-type plasminogen activator (PLAU). As PLAT inhibitor, it is required for fibrinolysis down-regulation and is responsible for the controlled degradation of blood clots. As PLAU inhibitor, it is involved in the regulation of cell adhesion and spreading. Acts as a regulator of cell migration, independently of its role as protease inhibitor. It is required for stimulation of keratinocyte migration during cutaneous injury repair. It is

involved in cellular and replicative senescence. Plays a role in alveolar type 2 cells senescence in the lung. Is involved in the regulation of cementogenic differentiation of periodontal ligament stem cells, and regulates odontoblast differentiation and dentin formation during odontogenesis.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

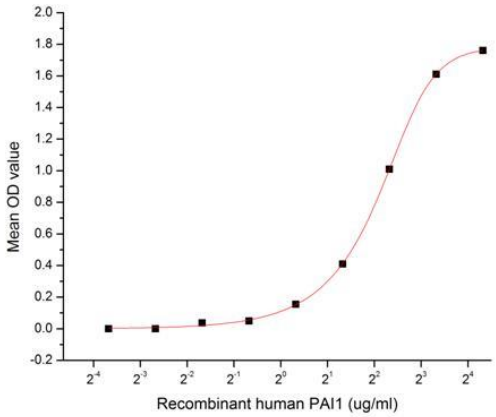


Figure 1. The binding activity of PAI1 with VTN

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 µl were then transferred to VTN-coated microtiter wells and incubated for 2h at 37℃. 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 substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of PAI1 and VTN was shown in Figure 1, and this effect was in a dose dependent manner, the EC50 was approximately

4.47 ug/mL.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.