

# Recombinant Human SerpinB2/PAI-2 Protein (GST Tag)

Catalog Number:PKSH031499



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

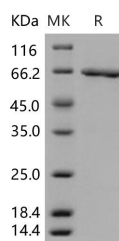
## Description

<b>Synonyms</b>	HsT1201;PAI;PAI-2;PAI2;PLANH2
<b>Species</b>	Human
<b>Expression Host</b>	Baculovirus-Insect Cells
<b>Sequence</b>	Met 1-Pro 415
<b>Accession</b>	NP_002566.1
<b>Calculated Molecular Weight</b>	73.0 kDa
<b>Observed molecular weight</b>	65 kDa
<b>Tag</b>	N-GST
<b>Bioactivity</b>	Immobilized human GST-SerpinB2 at 10 µg/ml (100 µl/well) can bind biotinylated human uPA-His (Cat: PKSH031415), The EC50 of biotinylated human uPA-His is 10.24-23.88 ng/ml.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0, 0.5mM Reduced Glutathione, 10% glycerol, 0.5mM PMSF Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buff
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Serpins are the largest and most diverse family of serine protease inhibitors which are involved in a number of fundamental biological processes such as blood coagulation, complement activation, fibrinolysis, angiogenesis, inflammation and tumor suppression and are expressed in a cell-specific manner. SerpinB2, also known as Plasminogen activator inhibitor 2, Placental plasminogen activator inhibitor, Monocyte Arg-serpin, Urokinase inhibitor and PAI2, is a

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cytoplasm protein which belongs to theserpin family and Ov-serpin subfamily. SerpinB2 is a major product of activated monocytes and macrophages and is substantially induced during most inflammatory processes. Distinct from its widely described extracellular role as an inhibitor of urokinase plasminogen activator. SerpinB2 has been shown to have an intracellular role as a retinoblastoma protein (Rb)-binding protein that inhibits Rb degradation. SerpinB2 is widely described as an inhibitor of urokinase plasminogen activator. SerpinB2 inhibits urokinase-type plasminogen activator. The monocyte derived SerpinB2 is distinct from the endothelial cell-derived PAI-1. SerpinB2 is a potentially important inducible host factor that significantly promotes HIV-1 replication.

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