

SerpinB2 active protein

SerpinB2 Protein, Human, Recombinant (GST Tag)

CATALOG #
AAA257905

HOST
Baculovirus-Insect Cells

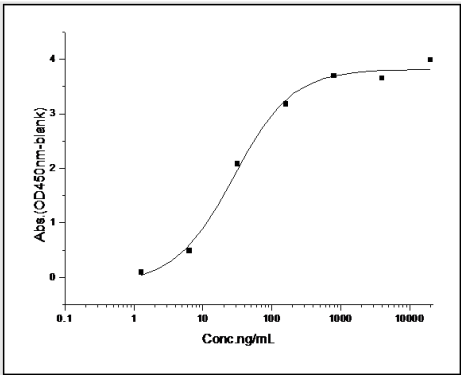
PRODUCT SYNONYMS

SerpinB2; SerpinB2 Protein; Human; Recombinant (GST Tag); Human SerpinB2/PAI-2 Protein (GST Tag); HsT1201 Protein; PAI Protein; PAI-2 Protein; PAI2 Protein; PLANH2 Protein; Serpin B2 Protein; serpin peptidase inhibitor; clade B (ovalbumin); member 2; SerpinB2 active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 50mM Tris, 100mM NaCl, pH8.0, 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 buffer informatio
Sequence	Met1-Pro41 5
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Met
Tag	N-GST
Protein Construction	A DNA sequence encoding the full length of human SERPINB2 (NP_002566.1)(Met 1-Pro 415) was fused with the GST tag at the N-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Immobilized human GST-SerpinB2 at 10ug/ml (100uL/well) can bind biotinylated human uPA-His. The EC50 of biotinylated human uPA-His is 10.24-23.88ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Immobilized human GST-SerpinB2 at 10 ug/ml (100 ul/well) can bind biotinylated human uPA-His. The EC50 of biotinylated human uPA-His is 10.24-23.88 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for SerpinB2 active protein	Background: Serpins are the largest and most diverse family of serine protease inhibitors which are involved in some 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 cytoplasm protein that belongs to the serpin 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.
References	Sumi, Y. et al., 1989, J. Biochem. 106: 703-7. Rawlings, N.D. et al., 2004, Biochem J. 378: 705-16. Gillard, A. et al., 2006, Am J Nephrol. 26 (1): 34-42. Schroder,WA. et al., 2010, J Immunol. 184 (5): 2663-70.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505595
NCBI GeneID	5055
NCBI Accession #	NP_002566.1
NCBI GenBank Nucleotide #	NM_002575.2
UniProt Accession #	P05120; Q96E96
Molecular Weight	46,596 Da
NCBI Official Full Name	plasminogen activator inhibitor 2
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade B (ovalbumin), member 2
NCBI Official Symbol	SERPINB2
NCBI Official Synonym Symbols	PAI; PAI2; PAI-2; PLANH2; HsT1201
NCBI Protein Information	plasminogen activator inhibitor 2; serpin B2; monocyte Arg-serpin; urokinase inhibitor; placental plasminogen activator inhibitor; plasminogen activator inhibitor, type II (arginine-serpin); serine (or cysteine) proteinase inhibitor, clade B (ovalbumin),
UniProt Protein Name	Plasminogen activator inhibitor 2
UniProt Gene Name	SERPINB2

UniProt Synonym Gene Names	PAI2; PLANH2; PAI-2
UniProt Entry Name	PAI2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/baculovirus-insect-cells-active-protein/serpinb2/257905>