Recombinant Human SERPINB2 protein

Cat. No. SERPINB2-31186TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SERPINB2 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	415
Description	Plasminogen activator inhibitor-2 (placental PAI, SerpinB2, PAI-2), a serine protease inhibitor of the serpin superfamily, is a coagulation factor that inactivates tPA and urokinase. It is present in most cells, especially monocytes/macrophages. PAI-2 exists in two forms, a 60-kDa extracellular glycosylated form and a 43-kDa intracellular form.
Form	Lyophilized from a 0.2μm filtered concentrated solution in 20 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1 mM Cysteine, with 5 % Trehalose.
Bio-activity	Fully biologically active when compared to standard. The biologically active was determined by its inhibitory effect against single chain tPA induced cleavage of a chromogenic substrate in Imidazole Buffer at 37 centigrade. Half maximal inhibition against 1.0 μg/ml of single chain tPA was at a concentration of 1.0 μg/ml.
Molecular Mass	Approximately 46.6 kDa, a single non-glycosylated polypeptide chain containing 415 amino acids.

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AA Sequence	MEDLCVANTLFALNLFKHLAKASPTQNLFLSPWSISSTMAMVYMGSRGSTEDQMAK VLQFNEVGANAVTPMTPENFTSCGFMQQIQKGSYPDAILQAQAADKIHSSFRSLSSA INASTGNYLLESVNKLFGEKSASFREEYIRLCQKYYSSEPQAVDFLECAEEARKKINS WVKTQTKGKIPNLLPEGSVDGDTRMVLVNAVYFKGKWKTPFEKKLNGLYPFRVNSA QRTPVQMMYLREKLNIGYIEDLKAQILELPYAGDVSMFLLLPDEIADVSTGLELLESEI TYDKLNKWTSKDKMAEDEVEVYIPQFKLEEHYELRSILRSMGMEDAFNKGRANFSG MSERNDLFLSEVFHQAMVDVNEEGTEAAAGTGGVMTGRTGHGGPQFVADHPFLFL IMHKITNCILFFGRFSSP		**Endotoxin**	Less than 0.1 EU/μg of rHuPAI-2 as determined by LAL method.		**Purity**	>95% by SDS-PAGE and HPLC analysis.		**Storage**	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.		**Reconstitution**	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	SERPINB2
Official Symbol	SERPINB2
Synonyms	SERPINB2; serpin peptidase inhibitor, clade B (ovalbumin), member 2; PAI2,

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	PLANH2, serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 2; plasminogen activator inhibitor 2; HsT1201; 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), member 2; PAI; PAI2; PAI-2; PLANH2;
Gene ID	5055
mRNA Refseq	NM_001143818
Protein Refseq	NP_001137290
MIM	173390
UniProt ID	P05120

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