

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

MEDLCVANTL FALNLFKHLAKASPTQNLFLSPWSISSTMAMVYMGSRGSTEDQMAK
 VLQFNEVGANAVTPMTPENFTSCGFMQQIQKGSYPDAILQAQAADKIHSSFRSLSSA
 INASTGNYLLESVNKLFGEKSASFREYIRLCQKYYSSEPQAVDFLECAEEARKKINS
 WVKTQTKGKIPNLLPEGSVDGDMVLVNAVYFKGKWKTPFEKLNGLYPFRVNSA
 QRTPVQMMYLREKLNIGYIEDLKAQILELPYAGDVSMFLLLPEIADVSTGLELLESEI
 TYDKLNKWT SKDKMAEDEVEVYIPQFKLEEHYELRSILRSMGMEDAFNKGRANFSG
 MSERNDLFLSEVFHQAMVDVNEEGTEAAAGTGGVMTGRTGHGGPQFVADHPFLFL
 IMHKITNCILFFGRFSSP

Endotoxin Less than 0.1 EU/g 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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