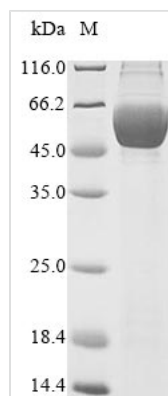




Recombinant Human Plasminogen activator inhibitor 2 (SERPINB2)

Product Code	CSB-MP021070HU
Relevance	Inhibits urokinase-type plasminogen activator. The monocyte derived PAI-2 is distinct from the endothelial cell-derived PAI-1.
Abbreviation	Recombinant Human SERPINB2 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P05120
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MEDLCVANTLFLALNLFKHLAKASPTQNLFLSPWSISSTMAMVYMGSRGSTED QMAKVLQFNEVGANAVTPMTPENFTSCGFMQQIQKGSYPDAILQAQAADKIH SSFRSLSSAINASTGNYLLESVNKLFGEKSASFEEYIRLCQKYYSSEPQAVDF LECAEEARKKINSWVKTQTKGKIPNLLPEGSVDGDTRMVLVNAVYFKGKWKTP FEKKLNGLYPFRVNSAQRTVPQMMYLREKLNIGYIEDLKAQILELPYAGDVSMF LLLPDEIADVSTGLELLESEITYDKLNKWT SKDKMAEDEVEVYIPQFKLEEHYEL RSILRSMGMEDAFNKGRANFSGMSERNDLFLSEVFHQAMVDVNEEGTEAAA GTGGVMTGRTGHGGPQFVADHPFLFLIMHKITNCILFFGRFSSP
Research Area	Cell Biology
Source	Mammalian cell
Target Names	SERPINB2
Protein Names	Monocyte Arg-serpin (Placental plasminogen activator inhibitor) (Serpins B2) (Urokinase inhibitor) (PAI2) (PLANH2)
Expression Region	1-415aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	50.1 kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant Human SERPINB2 protein is encoded by the gene of SERPINB2 (1-415aa). The gene of SERPINB2 was cloned in a system (Mammalian cell) that supported the expression of SERPINB2 and translation of messenger RNA. Modification of SERPINB2 by recombinant DNA technology could lead to the expression of the target protein. The protein was fused with N-terminal 10xHis tag in the production. The purity is 85% determined by SDS-PAGE.

SerpinB2 (PAI2) is a protein coding gene that encodes Plasminogen activator inhibitor 2. According to some studies, SerpinB2 may have the following features.

Regulating Th1 response seems to be a physiological function of inflammation-related SerpinB2. One function of SerpinB2 is to sculpt the adaptive immune response. SerpinB2 regulates the stroma remodeling and local invasion of pancreatic cancer. SerpinB2 protects retinoblastoma protein from the influence of calcin and enhances the viability of tumor cells. The Kindlin2-p53-SerpinB2 signal axis is necessary for breast cancer cell senescence. The serine protease inhibitor SerpinB2 binds and stabilizes p21 in senescent cells. SerpinB2 inhibits migration and promotes the resolution phase characteristics of large peritoneal macrophages. SerpinB2 expressed by tumor cells is present on the microparticles and inhibits metastasis. SERPINB2 is a new indicator of stem cell toxicity.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.