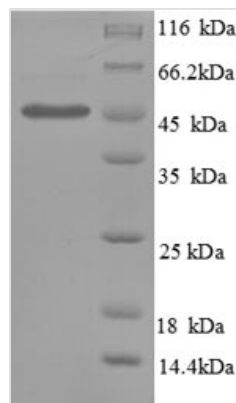




Recombinant Human Plasminogen activator inhibitor 1 (SERPINE1), partial

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|--------------------------|--|
| Product Code | CSB-EP021081HU1 |
| Relevance | Serine protease inhibitor. This inhibitor acts as 'bait' for tissue plasminogen activator, urokinase, protein C and matriptase-3/TMPRSS7. Its rapid interaction with PLAT may function as a major control point in the regulation of fibrinolysis. |
| Abbreviation | Recombinant Human SERPINE1 protein, partial |
| 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. | P05121 |
| Alias | Endothelial plasminogen activator inhibitor Serpin E1 |
| Product Type | Recombinant Protein |
| Immunogen Species | Homo sapiens (Human) |
| Purity | Greater than 90% as determined by SDS-PAGE. |
| Sequence | VHHPPSYVAHLASDFGVRVFQQVAQASKDRNVVFSYGVASVLAMLQLTTGG ETQQQIQAAAMGFKIDDKGMAPALRHLYKELMGPWNKDEISTTDAIFVQRDLKL VQGFMPHFFRLFRSTVKQVDFSEVERARFIINDWVKTHTKGMISNLLGKGAVD QLTRLVLVNALYFNGQWKTPFPDSSTHRRLFHKSDGSTVSVPMMAQTNKFNY TEFTTPDGHYYDILELPYHGDTLSMFIAAPYEKEVPLSALTNILSAQLISHWKGN MTRLPRLLVLPKFSLETEVDLRKPLENLGMTDMFRQFQADFTSLSDQEPLHVA QALQKVKIEVNESGTVASSSTAVIVSARMAPEEIIMDRPFLFVVRHNPTGTVLF MGQVME |
| Research Area | Cardiovascular |
| Source | E.coli |
| Target Names | SERPINE1 |
| Expression Region | 24-401aa |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Tag Info | N-terminal 6xHis-tagged |
| Mol. Weight | 46.7kDa |
| Protein Length | Partial |
| Image | |



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

Description

The region for expressing recombinant Human SERPINE1 contains amino acids 24-401. The theoretical molecular weight of the SERPINE1 protein is 46.7 kDa. This SERPINE1 protein is produced using e.coli expression system. The SERPINE1 coding gene included the N-terminal 6xHis tag, which simplifies the detection and purification processes of the recombinant SERPINE1 protein in following stages of expression and purification.

Plasminogen activator inhibitor 1 (SERPINE1) is a member of the serine protease inhibitor (serpin) family and plays a crucial role in the regulation of fibrinolysis. SERPINE1 inhibits tissue-type plasminogen activator (tPA) and urokinase-type plasminogen activator (uPA), thus controlling the conversion of plasminogen to plasmin, a key enzyme in the dissolution of blood clots. Beyond its role in fibrinolysis, SERPINE1 is involved in various physiological and pathological processes, including tissue remodeling, inflammation, and cell migration. Dysregulation of SERPINE1 is implicated in conditions such as thrombosis, cardiovascular diseases, and cancer. Research on SERPINE1 explores its potential as a therapeutic target in diseases associated with altered fibrinolytic activity.

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.