

Human CellExp™ SERPIND1, human recombinant

CATALOG #: 7411-10 10 µg

ALTERNATE NAMES: SerpinD1, HCF2, HLS2, HC-II

SOURCE: HEK 293 cells (Gly 20 – Ser 499)

PURITY: ≥ 95% by SDS-PAGE gel

MOL. WEIGHT: This protein is fused with polyhistidine tag at the C-terminus, has a calculated MW of 55.7 kDa. The predicted N-terminus is Gly 20. DTT-reduced Protein migrates as 65-70 kDa due to glycosylation.

ENDOTOXIN LEVEL: <1 EU/µg by LAL method

FORM: Lyophilized

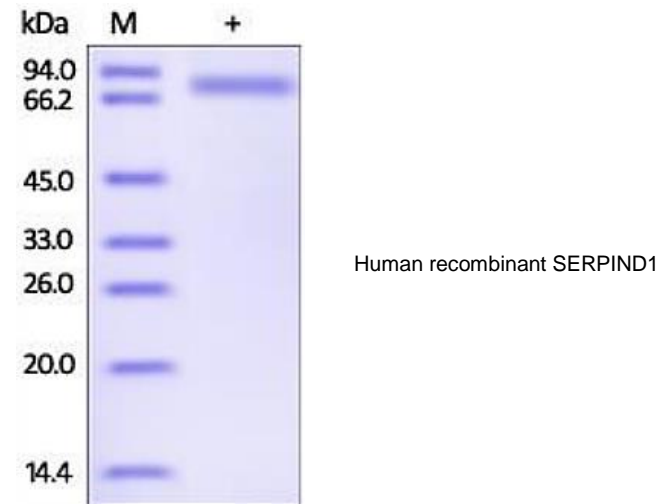
FORMULATION: Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH 7.5. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

DESCRIPTION: Serpin D1 is also known as Heparin cofactor 2 (HCF2), Protease inhibitor leuserpin-2 (HLS2), Heparin cofactor II (HC-II), which belongs to the serpin family. HCF2 is expressed predominantly in liver. Thrombin inhibitor activated by the glycosaminoglycans, heparin or dermatan sulfate. In the presence of the latter, SerpinD1 / HC-II becomes the predominant thrombin inhibitor in place of antithrombin III (AT-III). In a glycosaminoglycan-independent manner, serpinD1 / HC-II also inhibits chymotrypsin. Peptides at the N-terminal of HC-II have chemotactic activity for both monocytes and neutrophils.

BIOLOGICAL ACTIVITY: Measured by its ability to inhibit Recombinant Human Coagulation Factor II/Thrombin cleavage of a fluorogenic peptide substrate Boc-VPR-AMC. The IC₅₀ value is <1.8 nM.



RELATED PRODUCTS:

- Human CellExp™ SERPINA1 /A1AT, human recombinant, **(Cat. No. 7235-10)**
- Human CellExp™ SERPINA8, human recombinant, **(Cat. No. 7236-10)**
- Serpin E1/PAI-1, human recombinant, **(Cat. No. 4731-10, -100, -1000)**
- Serpin A6 Antibody **(Cat. No. 3906-100)**
- Serpin A6 Blocking Peptide **(Cat. No. 3906BP-100)**
- Neuroserpin, human recombinant, **(Cat. No. 7181-10, -50)**

FOR RESEARCH USE ONLY! Not to be used in humans.