# Recombinant human Serpin D1/Heparin cofactor II protein

Catalog Number: ATGP2765

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
58-499aa

**UniProt No.**
P05546

**NCBI Accession No.**
NP_000176

**Alternative Names**
Heparin cofactor 2 precursor, D22S673, HC2, HCF2, HCII, HLS2, LS2, THPH10

## PRODUCT SPECIFICATION

**Molecular Weight**
53.3 kDa ( 465aa)

**Concentration**
1mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

**Purity**
> 85% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE, Denatured

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**
SERIND1 is a serine proteinase inhibitor which rapidly inhibits thrombin in the presence of dermatan sulfate or heparin. This protein contains five exons and four introns. It shares homology with antithrombin III and other members of the alpha 1-antitrypsin superfamily. Mutations in this gene are associated with heparin cofactor II deficiency. Recombinant human SERIND1 protein, fused to His-tag at N-terminus, was expressed in E. coli

**Amino acid Sequence**
<MGSSHHHHHH SSGLVPRGSH MGS>DFHKENT VTNDWIPEGE EDDDYLDLEK IFSEDDDYID IVDSLSVSPT

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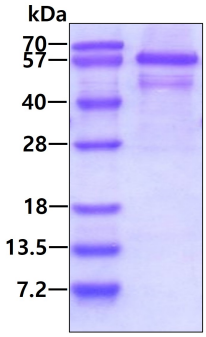
DSDVSAGNIL QLFHGKSRIQ RLNILNAKFA FNLYRVLKDQ VNTFDNIFIA PVGISTAMGM ISLGLKGETH EQVHSILHFK DFVNASSKYE ITTIHNLFRK LTHRLFRRNF GYTLRSVNDL YIQKQFPILL DFKTKVREYY FAEAQIADFS DPAFISKTNN HIMKLTKGLI KDALENIDPA TQMMILNCIY FKGSWVNKFP VEMTHNHNFR LNEREVVKVS MMQTKGNFLA ANDQELDCDI LQLEYVGGIS MLIVVPHKMS GMKTLEAQLT PRVVERWQKS MTNRTREVLL PKFKLEKNYN LVESLKLMGI RMLFDKNGNM AGISDQRIAI DLFKHQGTIT VNEEGTQATT VTTVGFMPLS TQVRFTVDRP FLFLIYEHRT SCLLFMGRVA NPSRS

**General References**

van Deerlin V.M.D., Tollefsen D.M. (1991) J. Biol. Chem. 266:20223-20231.

## DATA

### SDS-PAGE




3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.