

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 SGLVPRGSH MGS>DFHKENT VTNDWIPEGE EDDDYLDLEK IFSEDDDYID IVDSLVSPT

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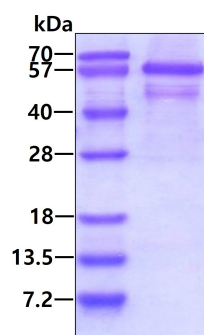
DSDVSAGNIL QLFHGKSRIQ RLNILNAKFA FNLYRVLKDQ VNTFDNIFIA PVGISTAMGM ISLGLKGETH EQVHSILHFK
DFVNASSKYE ITTIHNLFRK LTHRLFRRNF GYTLRSVNDL YIQKQFPILL DFKTKVREYY FAEAQIADFS DPAFISKTNN
HIMKLTKGLI KDALENIDPA TQMMILNCIY FKGSWVNKFP VEMTHNHNFR LNEREVVKVS MMQTKGNFLA ANDQELDCDI
LQLEYVGGIS MLIVVPHKMS GMKTLEAQLT PRVVERWQKS 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.