
Product Data Sheet

Product Name: SERPIND1 Human

Cat. No.: GP24547

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Serp Family D Member 1; Cysteine Proteinase Inhibitor Clade D Member 1; Serpin Peptidase Inhibitor Clade D Member 1; Protease Inhibitor Leuserpin-2; Serpin D1; HCF2; HLS2; Leuserpin 2; D22S673; THPH10; HC-II; HCII; HC2; LS2.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MGSDFKKENT VTNDWIPEGE EDDDYLDLEK IFSEDDDYID IVDSLSVSPT DSDVSAGNIL QLFHGKSRIQ RLNILNAKFA FNLYRVLKDQ VNTFDNIFIA PVGISTAMGM ISLGLKGETH EQVHSILHFK DFVNASSKYE ITTIHNLFRK LTHRLFRRNF GYTLRSVNDL YIQKQFPILL DFKTKVREYY FAEAQIADFS DPAFISKTNN HIMKLTGLI KDALENIDPA TQMMILNCIY FKGSWVNKFP VEMTHNHNFR LNEREVVKVS MMQTKGNFLA ANDQELDCDI LQLEYVGGIS MLIVVPHKMS GMKTLEAQLT PRVVERWQKS MTNRTREVLV PKFKLEKNYN LVESLKLMMGI RMLFDKNGNM AGISDQRIAI DLFKHQGTIT VNEEGTQATT VTTVGFMPPLS TQVRFTVDRP FLFLIYEHRT SCLLFMGRVA NPSRS.</p>		
Formulation	The SERPIND1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

Introduction

Serp Peptidase Inhibitor, Clade D Member 1 (SERPIND1) is a serine proteinase inhibitor which rapidly inhibits thrombin in the presence of dermatan sulfate. SERPIND1 gene is a member of the serpin gene superfamily. SERPIND1 protein contains 5 exons and 4 introns. SERPIND1 shares homology with antithrombin III and other members of the alpha 1-antitrypsin superfamily. SERPIND1 gene mutations are linked with cofactor II deficiency. SERPIND1 protein is activated by dermatan sulfate, and glycosaminoglycans. Allelic variations in the SERPIND1 gene are linked with cofactor II deficiency.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

SERPIND1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 465 amino acids (58-499) and having a molecular mass of 53.3kDa. SERPIND1 is fused to a 23 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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