Datasheet for ABIN7197973

SERPIND1 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	SERPIND1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SERPIND1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SerpinD1 Protein (His Tag)(Active)
Sequence:	Met 1-Ser 499
Characteristics:	A DNA sequence encoding the human SerpinD1 precursor (NP_000176.2) (Met 1-Ser 499) was expressed with a C-terminal polyhistidine tag.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA.Immobilized recombinant human SerpinD1-His at 10 µg/ml (100 µl/well) can bind biotinylated recombinant mouse ELANE-His with a linear range of 0.15-10.0 µg/ml.

Target Details

Target:	SERPIND1

Target Details

Alternative Name:	SerpinD1 (SERPIND1 Products)
Background:	Background: SerpinD1, also known as heparin cofactor II (HCâ…¡), is a member of Serpin superfamily of the serine proteinase inhibitors. HCII is a glycoprotein in human plasma that inhibits thrombin and chymotrypsin, and the rate of inhibition of thrombin is rapidly increased by Dermatan sulfate (DS), heparin (H) and glycosaminoglycans(GAG). The stimulatory effect of glycosaminoglycans on the inhibition is mediated, in part, by the N-terminal acidic domain of HCII. Interestingly, a C-terminal His-tagged recombinant HCII exhibits enhanced activity of thrombin inhibition. It has been suggested that HCII plays an unique and important role in vascular homeostasis, and accordingly mutations in this gene or congenital HCII deficiency is potentially associated with thrombosis. HCII specifically inhibits thrombin action at the site of vascular wall injury and HCII-thrombin complexes have been detected in human plasma. HCII protects against thrombin-induced vascular remodeling in both humans and mice and suggest that HCII is a predictive biomarker and therapeutic target for atherosclerosis. SerpinD1 also inhibits chymotrypsin, but in a glycosaminoglycan-independent manner. Synonym: D22S673;HC2;HCF2;HCII;HLS2;LS2;SerpinD1;THPH10
Molecular Weight:	56.4 kDa
NCBI Accession:	NP_000176

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.