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SERPIND1 Protein (His tag)





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Overview		
Quantity:	50 μg	
Target:	SERPIND1	
Origin:	Mouse	
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 Mouse SerpinD1/HCF2 Protein (His Tag)(Active)	

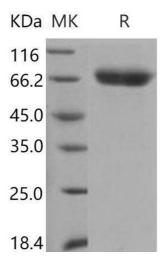
Purpose:	Recombinant Mouse SerpinD1/HCF2 Protein (His Tag)(Active)
Sequence:	Met1-Ser 478
Characteristics:	A DNA sequence encoding the mouse SerpinD1 precursor (NP_032249.3) (Met1-Ser 478) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 98 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit thombin (Sigma, T4648) cleavage of fluorogenic peptide substrate Boc-VPR-AMC (R&D Systems, Catslog# ES011). The IC50 value is < 1.2 nM.

Target Details

Target: SERPIND1

Target Details

Alternative Name:	SerpinD1/HCF2 (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: Heparin cofactor 2; Heparin cofactor II; HC-II; Protease inhibitor leuserpin-2; Serpin		
	D1		
Molecular Weight:	53.5 kDa		
NCBI Accession:	NP_032249		
Application Details			
Restrictions:	For Research Use only		
	For Research Use only		
	For Research Use only		
Handling	For Research Use only Lyophilized		
Handling Format:			
Handling Format: Reconstitution:	Lyophilized		
Handling Format: Reconstitution: Buffer:	Lyophilized Please refer to the printed manual for detailed information.		
Handling Format: Reconstitution: Buffer: Storage: Storage Comment:	Lyophilized Please refer to the printed manual for detailed information. Lyophilized from sterile 25 mM HEPES, 150 mM NaCl, pH 7.4		
Handling Format: Reconstitution: Buffer: Storage:	Lyophilized Please refer to the printed manual for detailed information. Lyophilized from sterile 25 mM HEPES, 150 mM NaCl, pH 7.4 4 °C,-20 °C,-80 °C		



Western Blotting

Image 1.