Datasheet for ABIN7196712

KNG1 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	KNG1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This KNG1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Kininogen 1/KNG1 Protein (His Tag)(Active)
Sequence:	Gln 19-Ser 644
Characteristics:	A DNA sequence encoding the human KNG1 isoform 1 (NP_001095886.1) (Gln 19-Ser 644) was fused with a polyhistidine tag at the C-terminus, and a signal peptide at the N-terminus.
Purity:	> 85 % as determined by reducing 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 papain cleavage of a fluorogenic peptide substrate Z-FR-AMC, R&D Systems, Catalog # ES009. The IC50 value is < 7 nM.

Target Details

Target:	KNG1

Target Details

Alternative Name:	Kininogen 1/KNG1 (KNG1 Products)
Background:	Background: Kininogen-1, also known as high molecular weight kininogen, williams-Fitzgerald-Flaujeac factor, Alpha-2-thiol proteinase inhibitor, Fitzgerald factor, KNG1 and BDK, is a secreted protein which contains three cystatin domains. Kininogen-1 / KNG1 is a protein from the blood coagulation system as well as the kinin-kallikrein system. It is a protein that adsorbs to the surface of biomaterials that come in contact with blood. Kininogen-1 / KNG1 circulates throughout the blood and quickly adsorbs to the material surfaces. Kininogen-1 / KNG1 is one of the early participants of the intrinsic pathway of coagulation, together with Factor XII (Hageman factor) and prekallikrein. Kininogen-1 / KNG1 is one of the kininogens, a class of proteins. As with many other coagulation proteins, the protein was initially named after the patients in whom deficiency was first observed. When the clinical data were combined, it turned out that all patients, in fact, had a deficiency of the same protein. Defects in KNG1 are the cause of high molecular weight kininogen deficiency (HMWK deficiency) which is an autosomal recessive coagulation defect. Patients with HWMK deficiency do not have a hemorrhagic tendency, but they exhibit abnormal surface-mediated activation of fibrinolysis. Synonym: Kininogen-1; lpha-2-Thiol Proteinase Inhibitor; Fitzgerald Factor; High Molecular Weight Kininogen; HMWK; Williams-Fitzgerald-Flaujeac Factor; KNG1; BDK; KNG
Molecular Weight:	71.3 kDa
NCBI Accession:	NP_001095886
Pathways:	ACE Inhibitor Pathway, Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 25 mM Tris, 100 mM NaCl, pH 7.5
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.