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Datasheet for ABIN7319363 **KNG1 Protein (His tag)**

Overview

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

Product Details

Purpose:	Recombinant Human Kininogen 1/KNG1 Protein (His Tag)
Sequence:	Gln19-Ser427
Characteristics:	Recombinant Human Kininogen-1 is produced by our Mammalian expression system and the target gene encoding Gln19-Ser427 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	KNG1
Alternative Name:	Kininogen 1/KNG1 (KNG1 Products)
Background:	Background: Kininogen-1 is a secreted protein which contains three cystatin domains. There are two alternatively spliced forms, designated as the high molecular weight (HMW) and low MW (LMW) forms. Kininogen-1 plays a critical role in blood coagulation and inflammatory

Target Details

response. Kininogens are inhibitors of thiol proteases. Kininogen-1 participates in blood coagulation by helping to position optimally prekallikrein and factor XI next to factor XII, also inhibits the thrombin- and plasmin-induced aggregation of thrombocytes. The active peptide bradykinin that is released from Kininogen-1 shows a variety of physiological effects: influence in smooth muscle contraction, induction of hypotension, natriuresis and diuresis, decrease in blood glucose level. It is a mediator of inflammation and causes increase in vascular permeability, stimulation of nociceptors release of other mediators of inflammation. It has a cardioprotective effect. LMW-kininogen inhibits the aggregation of thrombocytes and doesn't involved in blood clotting.

Synonym: Kininogen-1, Ipha-2-Thiol Proteinase Inhibitor, Fitzgerald Factor, High Molecular Weight Kininogen, HMWK, Williams-Fitzgerald-Flaujeac Factor, KNG1, BDK, KNG

Molecular Weight: 46.9 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 a 0.2 µm filtered solution of 20 mM Hac-NaAC, 150 mM NaCl, pH 4.0.

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.