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# Recombinant Human Kininogen 1/KNG1 Protein (His Tag)

Catalog No. PKSH033413

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Synonyms Kininogen-1;lpha-2-Thiol Proteinase Inhibitor;Fitzgerald Factor;High Molecular

Weight Kininogen; HMWK; Williams-Fitzgerald-Flaujeac Factor; KNG1; BDK; KNG

Species Human

Expression Host

Sequence

Gln19-Ser427

Accession

P01042-2

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Gln19-Ser427

46.9 kDa

61 kDa

C-His

**Bioactivity** Not validated for activity

## **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** 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.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 µm filtered solution of 20mM Hac-NaAC, 150mM NaCl,

pH 4.0.

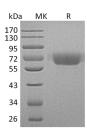
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

# Data



> 95 % as determined by reducing SDS-PAGE.

# Background

#### For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

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## **Elabscience Bionovation Inc.**



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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 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-kiningen inhibits the aggregation of thrombocytes and doesn't involved in blood clotting.

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