



# Recombinant Human Kininogen-1 (KNG1), partial

<b>Product Code</b>	CSB-EP012479HU
<b>Relevance</b>	1 Kininogens are inhibitors of thiol proteases; (2) HMW-kininogen plays an important role in blood coagulation by helping to position optimally prekallikrein and factor XI next to factor XII; (3) HMW-kininogen inhibits the thrombin- and plasmin-induced aggregation of thrombocytes; (4) the active peptide bradykinin that is released from HMW-kininogen shows a variety of physiological effects: (4A) influence in smooth muscle contraction, (4B) induction of hypotension, (4C) natriuresis and diuresis, (4D) decrease in blood glucose level, (4E) it is a mediator of inflammation and causes (4E1) increase in vascular permeability, (4E2) stimulation of nociceptors (4E3) release of other mediators of inflammation (e.g. prostaglandins), (4F) it has a cardioprotective effect (directly via bradykinin action, indirectly via endothelium-derived relaxing factor action); (5) LMW-kininogen inhibits the aggregation of thrombocytes; (6) LMW-kininogen is in contrast to HMW-kininogen not involved in blood clotting.
<b>Abbreviation</b>	Recombinant Human KNG1 protein, partial
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P01042
<b>Alias</b>	Alpha-2-thiol proteinase inhibitorFitzgerald factorHigh molecular weight kininogen ;HMWKWilliams-Fitzgerald-Flaujeac factor
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	SSRIGEIKEETTVPSPHTSMAPAQDEERDSGKEQGHTRRHWDWGHEKQRKHNLDHGHKHERDQGHGHRGHLGLHGHEQQHGLGHGKFKLDDDLHQQGGHVKTEHLASSSEDSTTPSAQTQEKTEGPTPIPSLAKPGVTVTFSDQSDLIATMMPPISPAPIQSDDDWDIPDIQIDP NGLSFNPISDFPDTTSPKCPGRPWKSVSSEINPTTQMKESYYFDL
<b>Research Area</b>	Cardiovascular
<b>Source</b>	E.coli
<b>Target Names</b>	KNG1
<b>Protein Names</b>	Alpha-2-thiol proteinase inhibitorFitzgerald factorHigh molecular weight kininogen ;HMWKWilliams-Fitzgerald-Flaujeac factor
<b>Expression Region</b>	390-639aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

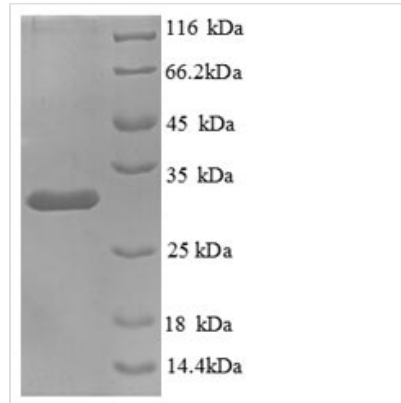


**Tag Info** N-terminal 6xHis-tagged

**Mol. Weight** 31.8 kDa

**Protein Length** Partial

**Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.