

## 32-7474: Recombinant Human Kininogen-1/KNG1 (C-6His)(Discontinued)

**Gene :** KNG1  
**Gene ID :** 3827  
**Uniprot ID :** P01042

### Description

Source: Human Cells.  
MW :46.89kD.

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

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM Hac-NaAC, 150mM NaCl, pH 4.0.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** QESQSEEIDCNDKDLFKAVDAALKKYNSQNQSNQFVLYRITEATKTVGSDTFYFKYEIKEGDCPVQSGKTW QDCEYKDAAKAATGECTATVGKRSSTKFSVATQTCQITPAEGPVVTAQYDCLGCVHPISTQSPDLEPILRHGIQY FNNNTQHSSLFMLNEVKRAQRQVVAGLNFRMTYSIVQTNCSKENFLFLTPDCKSLWNGDTGECTDNAYIDIQL RIASFSQNCDIYPGKDFVQPPTKICVGCPRDIPTNSPELEETLHTITKLNAENNATFYFKIDNVKKARVQVVAGK KYFIDFVARETTCSKESNEELTESCETKLGQSLDCNAEVYVVPWEKKIYPTVNCQPLGMISLMKRPPGFSPFRS SRIGEIKEETTSHLRSCYKGRPPKAGAEPASEREVSLDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.