

Recombinant Kininogen-1

Catalog No: #AP72641



Package Size: #AP72641-1 20ug #AP72641-2 100ug #AP72641-3 1mg

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Recombinant Kininogen-1
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:390-639aaSequence Info:Partial
Accession No.	P08934
Uniprot	P08934
GeneID	25087;
Calculated MW	29.8 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	APRVKKPKESTTVSPSYIARVQEERDPGNEQGPPIHGHWLHAKQIKNKNHQGHKHGHGIGHGHQKPHGLGH GHQLKLLDDLKQQREDGYDHRHPVGHGHGQRHGHGHGHGHRDKHTNKDKNNVKHTDQRRAPLTSSSEDN TTSTQIQGRTEGFTLNPLPAQPAVISRQFQDSGFTGVIATTSPYDTETHDDLIPDIHVQPDSLSFKLISDFPEAT SHKCPGRPWPVSRKDPTIETTEFSDFDLLDALS
Formulation	Tris-based buffer50% glycerol
Storage	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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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.

References

Differing expression patterns and evolution of the rat kininogen gene family.Kitagawa H., Kitamura N., Hayashida H., Miyata T., Nakanishi S.J. Biol. Chem. 262:2190-2198(1987)Research Topic:Others

Note: This product is for in vitro research use only