



Recombinant Rat KL Protein

Product Manual

1. Product Basic Information

Product No.: REP07290

Protein Name: KL

Aliases: KLA; HFTC3; klotho; alpha-klotho; beta-glucuronidase

UniProt ID: Q9UEF7

UniProt Link: <https://www.uniprot.org/uniprotkb/Q9UEF7/entry>

Species Source: Rattus norvegicus (Rat)

Expression System: E.coli

Protein Length: Partial (35-550aa)

Molecular Weight: 64.9000

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (35-550aa)

AEPGQGAQTTWARFARPPVPEASGLLHDTFPDGFLWAVGSAAYQTEGGWRQH GK
GASIWDTFTTHPRAIPEDSPIVMAPSGAPLPPLPSTGDVASDSYNNVYRDTEGLREL
GVTHYRFSISWARVLPNGTAGTPNREGLRYRRLRLRELGVQPVVTLYHWDLP
QRLQDITYGGWANRALADHFRDYAELCFRHFGGQVKYWITIDNPYVVAWHGYATG
RLAPGVRGSSRLGYLVAHNLLLAHAKVWRLYNTSFRPTQGGRVSIALGSHWITPRR
MTDYHIRECQKSLDFVLGWFAKPIFIDGDYPKSMKNNLSSLLPDFTESEKRFIRGTA
DFFALSFGPTLSFQLLDPSMKFRQLESPLRQLLSWIDLEYNHPQIFIVENGWVFSG
TTRRDDAKYMYYLKKFIMESLKAIRLDGVDVIGYTAWSLMDGFEWHRGYSIRRGFLF
YVDFLSQDKELLPKSSALFYQKLIENNGFPPLPENQPLEGTFPCDFAWGVVDNYIQV
DPTLSQFTDPNVYL

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Rat KL partial protein (35-550aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. KL, also known as KLA or HFTC3 or klotho, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.