



# Recombinant Human KLC3 Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP07292

**Protein Name:** Kinesin Light Chain Kinesin Light Chain 3 (KLC3)

**Aliases:** KLC2; KLCt; KLC2L; KNS2B; kinesin light chain kinesin light chain 3

**UniProt ID:** Q6P597

**UniProt Link:** <https://www.uniprot.org/uniprotkb/Q6P597/entry>

**Species Source:** Homo sapiens (Human)

**Expression System:** E.coli

**Protein Length:** Full Length (1-504aa)

**Molecular Weight:** 71.4kDa

**Protein Tag:** N-terminal 6xHis-SUMO-tagged

## 2. Amino Acid Sequence (1-504aa)

MSVQVAAPGSAGLGPERLSPEELVRQTRQVVQGLEALRAEHHGLAGHLAEALAGQ  
GPAAGLEMLEEKQQVVSHSLEAIELGLGEAQVLLALSAHVGAEAEKQRLRSQARR  
LAQENVWLREELEETQRRLRASEESVAQLEEEKRLHLEFLGQLRQYDPPAESQQSE  
SPPRRDSLASLFPSEEEERKGPEAAGAAAAQQGGYEIPARLRTLHNLVIQYAGQGR  
YEAVVPLCRQALEDLERSSGHCHPDVATMLNILALVYRDQNKYKEATDLLHDALQIR  
EQT LGPEHPAVAATLNNLAVLYGKRGYREAELCQRALEIREKVLGADHPDVAKQ  
LNNLALLCQNQGKFEDVERHYARALSIYEALGGPHDPNVAKTKNNLASAYLKQNKY  
QQAEELYKEILHKEDLPAPLGAPNTGTAGDAEQALRRSSSLSKIRESIRRGSEKLVS  
RLRGEAAAGAAGMKRAMSLNTLNVDAPRAPGTQFPSWHLDKAPRTLSASTQDLSP  
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## 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 Human KLC3 full length protein (1-504aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. KLC3, also known as KLC2 or KLCT or KLC2L, 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.