Recombinant Dog CTSK Protein Product Manual

1. Product Basic Information

Product No.: REP06594

Protein Name: Cathepsin Cathepsin Cathepsin Cathepsin O1 (CTSK)

Aliases: CTSO; PKND; PYCD; CTS02; CTSO1; CTSO2; cathepsin cathepsin cathepsin cathepsin O1; cathepsin O2

UniProt ID: P43235

UniProt Link: https://www.uniprot.org/uniprotkb/P43235/entry

Species Source: Canis lupus familiaris (Dog) (Canis familiaris)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (116-330aa)

Molecular Weight: 39.5kDa

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

2. Amino Acid Sequence (116-330aa)

APDSVDYRKKGYVTPVKNQGQCGSCWAFSSVGALEGQLKKKTGKLLNLSPQNLVD
CVSENDGCGGGYMTNAFQYVQKNRGIDSEDAYPYVGQDESCMYNPTGKAAKCR
GYREIPEGNEKALKRAVARVGPISVAIDASLTSFQFYSKGVYYDENCNSDNLNHAVL
AVGYGIQKGNKHWIIKNSWGENWGNKGYILMARNKNNACGIANLASFPKM

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 Dog CTSK full length of mature protein protein (116-330aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. CTSK, also known as CTSO or PKND or PYCD, 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.