



Recombinant Chinese hamster CTSD Protein Product Manual

1. Product Basic Information

Product No.: REP06590

Protein Name: Cathepsin Lysosomal Aspartyl Protease (CTSD)

Aliases: CPSD; CLN10; HEL-S-130P; cathepsin lysosomal aspartyl protease; lysosomal aspartyl peptidase; ceroid-lipofuscinosis, neuronal 10

UniProt ID: P07339

UniProt Link: <https://www.uniprot.org/uniprotkb/P07339/entry>

Species Source: Cricetulus griseus (Chinese hamster) (Cricetulus barabensis griseus)

Expression System: E.coli

Protein Length: Partial (65-408aa)

Molecular Weight: 53.3kDa

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

2. Amino Acid Sequence (65-408aa)

GPVSELLKNYLDAQYYGEIGITPPQCFTVVFDTGSSNLWVPSIHCKLLDIACWIHHK
YNSGKSSTFVKNGTSFDIHYGSGSLSGYLSQDTSVPCKSEQPGGLKVEKQIFGEAI
KQPGITFIAAKFDGILGMGYPSISVNNVVPVFDNLMQQLVEKNIFSFFLN RDPTGQP
GGELMLGGIDSKYYEGELSYLNVTRKAYWQVHMDQLDVANGLTLCKGGCEAIVDT
GTSLLVGPVDEVKELQKAIGAVPLIQGEYMIPCEKVSSLPSVTLKLGGKDYELSPSKY
VLKVSQGGKTCISGFMGMDIPPPSGPLWILGDVFIGTYTTFDRDNNRVGFAKAAT
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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 Chinese hamster CTSD partial protein (65-408aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. CTSD, also known as CPSD or CLN10 or HEL-S-130P, 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.