

Human CTSZ / CTSX / Cathepsin Z (His Tag) recombinant protein



Catalog Number: 501278

General Information

Gene Name Synonym

Cathepsin P; Cathepsin X

Protein Construction

A DNA sequence encoding the human CTSZ (Q9UBR2) (Met 1-Val 303) was fused with a polyhistidine tag at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK (Dnp)-OH, R&D Systems, Catalog # ES005. The specific activity is >800 pmoles/min/ μ g.

Purity

> 97 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μ g of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Gly 24

Molecular Mass

The secreted recombinant human CTSZ (pro form) consists of 291 amino acids and has a predicted molecular mass of 33 kDa. The apparent molecular mass of rhCTSZ is approximately 40 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

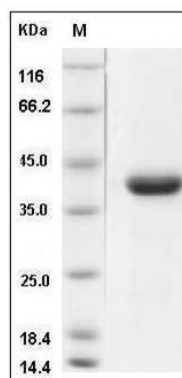
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human CTSZ Protein (His Tag) SDS-PAGE