

Cathepsin K Protein, Mouse, Recombinant (His)

General Information

Synonyms: Ctsk; Cathepsin K

Protein Construction: 115-329 aa

Species: Mouse

Expression Host: E. coli

Accession: P55097

Molecular Weight: 27.4 kDa (predicted)

AA Sequence: VPDSIDYRKKGYVTPVKNQGCWSCWAFSSAGALEGQLKKKTGKLLALSPQNLVDCVTENYGC GGGYMTTA
FQYVQQNGGIDSEDAYPYVVGQDESCMYNATAKAAKCRGYREIPVGNKALKRAVARVGPISVSIDASLASFQ
FYSRGVYYDENC DRDNVNHAVLVVGYGTQKGSKHWHIKN SWGESWGNKGYALLARNKNNACGITNMA SFP
KM

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Thiol protease involved in osteoclastic bone resorption. Displays potent endoprotease activity against fibrinogen at acid pH. May play an important role in extracellular matrix degradation. Involved in the release of thyroid hormone thyroxine (T4) by limited proteolysis of TG/thyroglobulin in the thyroid follicle lumen.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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