ABclonal www.abclonal.com

Recombinant Human Cathepsin D Protein

Catalog No.: RP00214 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 1509 P07339

Tags

C-His

Synonyms

CLN10;CPSD;HEL-S-130P;Cathepsin D:CTSD

Product Information

Source Purification HEK293 cells > 95% by SDS-

PAGE.

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

6		400-999-6126
\bowtie		cn.market@abclonal.com.cn
<u>~</u>	1	www.abclonal.com.cn

Background

Cathepsin D (CTSD), a well known lysosomal aspartyl protease and belongs to the peptidase C1 family. It is expressed in most cells and overexpressed in breast cancer cells. It is a major enzyme in protein degradation in lysosomes, and also involved in the presentation of antigenic peptides. cathepsin D is essential for proteolysis of proteins regulating cell growth and tissue homeostasis. CTSD secreted from human prostate carcinoma cells are responsible for the generation of angiostatin, a potent endogenous inhibitor of angiogenesis, suggesting its contribution to the prevention of tumor growth and angiogenesis-dependent growth of metastases.

Basic Information

Description

Recombinant Human Cathepsin D Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu21-Leu412) of human Cathepsin D/CTSD (Accession $\#NP_001900.1$) fused with a $6\times His$ tag at the C-terminus.

Bio-Activity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH2. The specific activity is >747 pmol/min/µg.

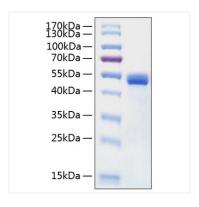
Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Cathepsin D Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 48-52 kDa.