

Datasheet for ABIN7194673

Cathepsin D Protein (CTSD) (His tag)[Go to Product page](#)

Overview

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| Quantity: | 50 µg |
| Target: | Cathepsin D (CTSD) |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This Cathepsin D protein is labelled with His tag. |

Product Details

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| Purpose: | Recombinant Human Cathepsin D/CTSD Protein (His Tag)(Active) |
| Sequence: | Met 1-Leu 412 |
| Characteristics: | A DNA sequence encoding the pro form of human CTSD (P07339) (Met 1-Leu 412) was fused with a polyhistidine tag at the C-terminus. |
| Purity: | > 97 % as determined by reducing SDS-PAGE. |
| Endotoxin Level: | < 1.0 EU per µg as determined by the LAL method. |
| Biological Activity Comment: | Measured by its ability to bind biotinylated human CTSS-His in a functional ELISA. |

Target Details

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| Target: | Cathepsin D (CTSD) |
| Alternative Name: | Cathepsin D/CTSD (CTSD Products) |

Target Details

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| Background: | <p>Background: Cathepsin D (CTSD), a well known lysosomal aspartyl protease and belongs to the peptidase C1 family, which is a normal and major component of lysosomes, and is found in almost all cells and tissues of mammals. Its mostly described function is intracellular catabolism in lysosomal compartments, other physiological effect include hormone and antigen processing. Cathepsin D has a specificity similar to but narrower than that of pepsin A. Cathepsin D plays an important role in the degradation of proteins, the generation of bioactive proteins, antigen processing, etc. Among different role in cell physiology, a new function of this enzyme is examined. Cathepsin D is an important regulator of apoptotic pathways in cells. It acts at different stage of intrinsic and extrinsic pathway of apoptosis. In addition, 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.</p> <p>Synonym: Cathepsin D, CTSD, CLN10, CPSD, HEL-S-130P</p> |
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| Molecular Weight: | 44 kDa |
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| UniProt: | P07339 |
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| Pathways: | Peptide Hormone Metabolism |
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Application Details

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| Restrictions: | For Research Use only |
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Handling

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| Format: | Lyophilized |
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| Reconstitution: | Please refer to the printed manual for detailed information. |
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| Buffer: | Lyophilized from sterile 25 mM MES, 150 mM NaCl, pH 6.5 |
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| Storage: | 4 °C, -20 °C, -80 °C |
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| Storage Comment: | <p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p> |
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