Recombinant Mouse CSTD (C-6His)

Catalog No: CC21

Description	Recombinant Mouse Cathepsin D is produced by our Mammalian expression system and the target gene encoding Ile21-Leu410 is expressed with a 6His tag at the C-terminus.
Source	Human Cells
Alternative name	Cathepsin D; CTSD; CPSD
Accession No.	P18242
Predicted Molecular Weight	43.9kDa
AP Molecular Weight	56kDa, reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM MES, 150mM NaCl, pH5.5.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Background	CTSD localizes to the lysosome and consists of a light chain and a heavy chain. CTSD is expressed in epithelial cells as well as in macrophages.CTSD is a lysosomal aspartyl protease that depends critically on protonation of its active site Asp residue and gets activated at pH 5 in endosome of hepatocytes. It has been suggested to facilitate cancer cell migration and invasion by digesting the basement membrane, extracellular matrix and xonnective tissue. In addition, CTSD has been used as a breast cancer tumor marker.
SDS-Page