

Recombinant Human CTSD (C-6His)

Catalog No: C399

Description	Recombinant Human Cathepsin D is produced by our Mammalian expression system and the target gene encoding Leu21-Leu412 is expressed with a 6His tag at the C-terminus.
Source	Human Cells
Alternative name	Cathepsin D; CTSD; CPSD
Accession No.	P07339
Predicted Molecular Weight	43.6kDa
AP Molecular Weight	50kDa, reducing conditions.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM MES, 150mM NaCl, pH 5.5.
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 on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Background	The protein acid protease active in intracellular protein breakdown and involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease. It is specificity similar to, but narrower than, that of pepsin A and it does not cleave the 4-Gln- -His-5 bond in B chain of insulin. It consists of a light chain and a heavy chain and expressed in the aorta extracellular space. The Val-58 allele is significantly overrepresented in demented patients (11.8%) compared with non-demented controls (4.9%). Carriers of the Val-58 allele have a 3.1-fold increased risk for developing AD than non-carriers. It belongs to the peptidase A1 family.

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