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Recombinant Human Cathepsin D

Catalog#:P01871 Derived from Human Cells

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. **Accession#**: P07339 **Known as**: Cathepsin D; CTSD; CPSD
FORMULATION	Supplied as a 0.2 μm filtered solution of 20mM MES, 150mM NaCl, pH 5.5.
SHIPPING	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
STORAGE	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
QUALITY CONTROL	**Mol Mass**:43.6kDa **AP Mol Mass**:50kDa, reducing conditions. **Purity**: Greater than 95% as determined by reducing SDS-PAGE. **Endotoxin**: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
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 extrcellular 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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