

Product datasheet for BA115

Cathepsin D Human Protein

Product data:

Product Type:	Native Proteins
Description:	Cathepsin D human protein, 25 µg
Species:	Human
Protein Source:	Liver
Concentration:	lot specific
Purity:	≥95 pure by SDS-PAGE
Buffer:	Presentation State: Purified State: Lyophilized purified protein Buffer System: 2 mM Sodium Phosphate, pH 6.5 Preservative: None
Bioactivity:	Specific: 396 Units/mg (prior to lyophilization). One unit is the amount of enzyme which digests hemoglobin releasing peptides which are soluble in 10% TCA. The reaction is measured by an increase of an A280 of 1.0 per 60 minutes at 37°C. <i>Substrate:</i> Acid denatured hemoglobin (0.2% in reaction mixture). <i>Buffer:</i> 0.1 M formate, pH 3.3
Reconstitution Method:	Restore with 358 µl distilled water
Preparation:	Lyophilized purified protein
Protein Description:	Purified Human Cathepsin D
Note:	Caution: All human source materials have tested negative for HIV 1, HIV 2, anti-HCV, anti-HBc antibodies and HBsAg. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.
Storage:	Store the product at -20°C. Avoid multiple freeze and thaw cycles.
Stability:	Shelf life: six months from despatch.
RefSeq:	NP_001900
Locus ID:	1509
Cytogenetics:	11p15.5



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Synonyms: CLN10; CPSD; HEL-S-130P

Summary: This gene encodes a member of the A1 family of peptidases. The encoded preproprotein is proteolytically processed to generate multiple protein products. These products include the cathepsin D light and heavy chains, which heterodimerize to form the mature enzyme. This enzyme exhibits pepsin-like activity and plays a role in protein turnover and in the proteolytic activation of hormones and growth factors. Mutations in this gene play a causal role in neuronal ceroid lipofuscinosis-10 and may be involved in the pathogenesis of several other diseases, including breast cancer and possibly Alzheimer's disease. [provided by RefSeq, Nov 2015]

Protein Families: Druggable Genome, Protease

Protein Pathways: Lysosome