

CTSD

Native Human Liver Cathepsin D

Catalog No.	CSI19793A CSI19793B	Quantity:	25 µg 100 µg
Alternate Names:	CPSD, CLN10, lysosomal aspartyl protease, lysosomal aspartyl peptidase, ceroid-lipofuscinosis neuronal 10		
Description:	Native Human Liver Cathepsin D		
Gene ID:	1509		
Source:	Human liver		
Molecular Weight:	42 kDa		
Formulation:	Lyophilized from a 0.2 µm sterile filtered solution of 0.002 M Sodium Phosphate, pH 6.5.		
Purity:	>95% by SDS-PAGE		
Specific Activity:	≥300 units per mg protein. One unit is defined as the amount of enzyme that digests hemoglobin-releasing peptides which are soluble in 10% TCA. The reaction is measured by an increase of an A 280 of 1.0 per 60 minutes at 37°C. Substrate: acid denatured hemoglobin, pH 1.8 (0.2% in reaction mixture). Buffer: 100 mM formate, pH 3.3.		
Reconstitution:	Centrifuge vial prior to opening. Add deionized water to original volume, aliquot and freeze unused portion.		
Storage & Stability:	Product is stable at -80°C for 3 years.		
Background:	Cathepsin D is an estrogen-regulated protein associated with tissue breakdown. Levels of cathepsin D have been positively correlated with recurring breast cancers of both node-negative and node-positive types. Additionally cathepsin D has been associated with amyloid formation in Alzheimer's plaques. As cathepsin D activity is increased by cigarette smoke, the enzyme may contribute to lung tissue damage in smokers.		
Certification:	Prepared from tissue shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.		

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Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com