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CTSD
Native Human Cathespin D, Liver

Catalog No.	CSI19793A CSI19793B	**Quantity:**	25 µg 100 µg

Description: 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.

UniProt ID: P07339

Gene ID: 1509

Source: Human liver

Molecular Weight: 42 kDa

Formulation: Lyophilized from 2 mM Sodium Phosphate, pH 6.5.

Purity: >95% by SDS-PAGE analysis

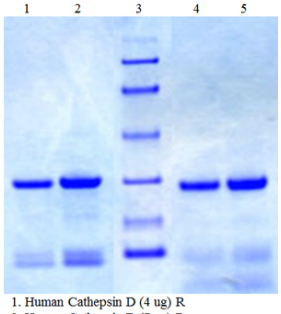
Extinction Coefficient: $E^{0.1\%}_{280nm}$ = 1.0

Specific Activity: ≥300 units/mg. 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 0.1-1.0 mg/ml.

Storage & Stability: Store at -80°C for up to 1 year. Upon reconsitution, prepare working aliquots and store at -80°C. **Avoid repeated freeze-thaw cycles.**

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.



1. Human Cathepsin D (4 ug) R
2. Human Cathepsin D (7 ug) R
3. Molecular Weight Markers
4. Human Cathepsin D (4 ug) NR
5. Human Cathepsin D (7 ug) NR

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