

**Product:** Cathepsin D  
**Catalog #:** 12-7609  
**Amount:** 25 mg

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**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 disease. As cathepsin D activity is increased by cigarette smoke, the enzyme may contribute to lung tissue damage in smokers.

**SOURCE:**

Human liver

**MOLECULAR WEIGHT:**

42,000

**BUFFER:**

2 mM Na-phosphate, pH 6.5

**ACTIVITY:**

>300 units/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<sub>280</sub> of 1.0 per 60 minutes at 37°C. Substrate: acid denatured hemoglobin (0.2% in reaction mixture).

Buffer: 100mM formate, pH 7.3

**PURITY:**

> 95% by SDS-PAGE

**STORAGE:**

Frozen (-20°C)

**QUALITY CONTROL:**

Nonreactive and negative for HBsAg, anti-HCV, anti-HBc, and anti-HIV by FDA-required tests.

Because no test method can offer complete assurance that products derived from human source will not transmit infectious agents, it is recommended that this product be handled with the same precautions used for patient specimens.

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