

Active Human Cathepsin D

CATALOG #:	1022-5
AMOUNT:	5 µg
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.
SOURCE:	Purified from human liver
FORM:	Lyophilized from a solution containing 2 mM sodium phosphate, pH 6.5
RECONSTITUTION:	Reconstitute the vial in dH ₂ O to a concentration of 0.1-1 µg/µl. Aliquot and refreeze at -80°C immediately for future use.
PURITY:	≥95% by SDS-PAGE
STORAGE:	Store at -80°C, stable for at least 6 months as supplied. Avoid freeze/thaw cycles.
APPLICATIONS:	Human Cathepsin D is useful in inhibitor screening, kinetic studies, and cleavage of substrates and other <i>in vitro</i> studies.
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 A280 of 1.0 per 60 minutes at 37°C. Substrate: acid denatured hemoglobin (0.2% in reaction mixture). Buffer: 100 mM formate, pH 3.3.
SPECIFIC ACTIVITY:	365 units/mg

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.

For Research Use Only! Not to be used in human subjects.

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- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

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- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

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