

Active Human Cathepsin L

CATALOG #:	1135-5	5 µg
	1135-100	100 µg
	1135-1000	1 mg
	1135-5000	5 mg

LOT #: _____

BACKGROUND DESCRIPTION:

Cathepsin L is a lysosomal protease that can be secreted from the cell and is implicated to play a role in protein degradation, arthritis, apoptosis, and cancer.

SOURCE:

The recombinant Cathepsin L was produced from *E. coli* encoding human cDNA sequence from 188 to 1135 of gene accession number M20496 with 6XHis-tag on its N-terminus. The protein was purified by several chromatographic steps.

FORM: Lyophilized from 50 mM HEPES buffer, pH 4.0.

PURITY: ≥90% by SDS-PAGE

RECONSTITUTION: With dH₂O to 0.1 – 1 mg/ml.

STORAGE CONDITIONS:

Store at –70°C, stable for at least 1 year as supplied. Avoid freeze/thaw cycles.

APPLICATIONS:

Recombinant Cathepsin L is useful in inhibitor screening, kinetic studies and cleavage of substrates *in vitro* or in tissue culture.

SPECIFIC ACTIVITY:

6000 units/mg protein. One unit will hydrolyze one nmol Z-Phe-Arg-AFC substrate per minute at 37°C in 400 mM Sodium Acetate, pH 5.5, with 4 mM EDTA and 10 mM DTT.

REFERENCES:

1. Josepg, L.J., *et al.* (1988) *J. Clin. Invest.* 81:1621-1626.
2. Turk, V., *et al.* (2001) *EMBO J.* 20:4629-4634.

For Research Use Only! Not to be used in humans.

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