

# Product Data Sheet

## Cathepsin K Protein, Rat (His)

Cat. No.:	HY-P72158
Synonyms:	Ctsk; Cathepsin K; EC 3.4.22.38
Species:	Rat
Source:	E. coli
Accession:	O35186 (V115-M329)
Gene ID:	29175
Molecular Weight:	Approximately 27.5 kDa

PROPERTIES
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Appearance
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Reconsititution
Storage & Stability
Shipping

#### DESCRIPTION

#### Background

Cathepsin K Protein, a thiol protease, plays a crucial role in osteoclastic bone resorption and is implicated in the regulation of bone remodeling. It exhibits potent endoprotease activity against fibrinogen under acidic conditions, suggesting its involvement in extracellular matrix degradation. Additionally, Cathepsin K is involved in the release of thyroid hormone thyroxine (T4) through limited proteolysis of TG/thyroglobulin in the thyroid follicle lumen. This multifaceted functionality underscores its significance in both bone metabolism and thyroid hormone regulation, emphasizing its role in maintaining

the delicate balance of these physiological processes.

### Caution: Product has not been fully validated for medical applications. For research use only.

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