

Active Recombinant Rat Ctsk Protein

Cat. No. CTSK-440R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ctsk Protein (115-329 aa) without tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	115-329 a.a.
Description	Cathepsin K, a member of the papain cysteine proteinase family is the predominant proteinase responsible for the resorption of the bone matrix. Cathepsin cleaves proteins such as collagen type I, collagen type II and osteonectin, thereby playing a role in bone remodeling and resorption in osteoporosis, osteolytic bone metastasis and rheumatoid arthritis (Bromme and Okamoto, 1995; Drake, F. et al 1996; Bossard et al, 1996).
Bio-activity	The specific activity is >500 mU/mg (1U = 1 µmole/min/mg) as measured by Cathepsin K Activity Assay Kit.
Molecular Mass	23.5 kDa (115-329 aa)
Purity	≥ 90% by SDS–PAGE analysis
Usage	For Research Use Only! Not For Use in Humans.
Storage	Store at -80 centigrade

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Storage Buffer	0.5 mg/mL solution in 25 mM Na ₂ HPO ₄ and 500 mM NaCl (pH 7.0) with 50% glycerol.
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Shipping	Dry Ice
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GENE INFORMATION

Gene Name	Ctsk cathepsin K [<i>Rattus norvegicus</i> (Norway rat)]
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Official Symbol	Ctsk
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Synonyms	Ctsk; cathepsin K; cathepsin K; EC 3.4.22.38; CTSK; CTSO3; CTSO
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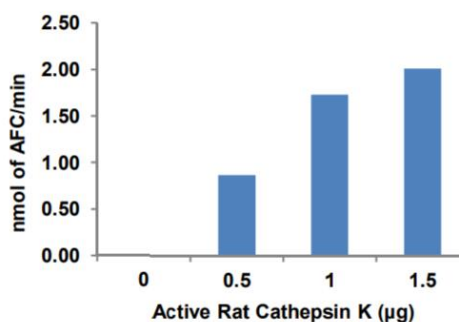
Gene ID	29175
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mRNA Refseq	NM_031560
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Protein Refseq	NP_113748
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UniProt ID	O35186
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Activity



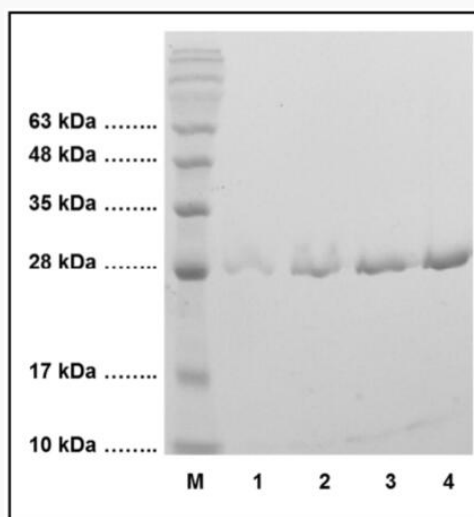
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Measurement of r-Cathepsin K activity by Cathepsin K Activity Assay Kit

SDS-PAGE



M: Protein Marker

1: Rat Cathepsin K (2 µg)

2: Rat Cathepsin K (5 µg)

3: Rat Cathepsin K (10 µg)

4: Rat Cathepsin K (15 µg)