

Procathepsin K, rat recombinant protein
CTSK, CTSO, CTSO3
Catalog # PBV10006r**Specification**

Procathepsin K, rat recombinant protein - Product info

Primary Accession	P00786
Concentration	1
Calculated MW	35.4 kDa KDa

Procathepsin K, rat recombinant protein - Additional Info

Gene ID	25425
Gene Symbol	CATK
Other Names	
CTSK, CTSO, CTSO3	
Gene Source	Rat
Source	E.coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC;
Recombinant	Yes
Results	>400 mU/mg
Target/Specificity	
Procathepsin K	

Format

Liquid

Storage-80°C; 1 mg/ml solution in 25 mM Na₂HPO₄ and 500 mM NaCl (pH 7.0).**Procathepsin K, rat recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Procathepsin K, rat recombinant protein - Images**Procathepsin K, rat recombinant protein - Background**

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). Cathepsin K is produced as an inactive proenzyme (35.4 kDa) that is converted to its mature active form (23.5 kDa) by proteolytic cleavage of its 99-amino-acid propeptide domain. The in-vitro processing of procathepsin K to mature cathepsin K is autocatalytic.

Procathepsin K, rat recombinant protein - References

Ishidoh K.,et al.FEBS Lett. 226:33-37(1987).
Ishidoh K.,et al.FEBS Lett. 253:103-107(1989).
Qian F.,et al.Int. J. Biochem. 22:1457-1464(1990).
Takio K.,et al.Proc. Natl. Acad. Sci. U.S.A. 80:3666-3670(1983).