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Procathepsin K, human recombinant protein
CTSK, CTSO, CTSO3
Catalog # PBV10004r

Specification

Procathepsin K, human recombinant protein - Product info

Primary Accession	P43235
Concentration	1
Calculated MW	35.9 kDa KDa

Procathepsin K, human recombinant protein - Additional Info

Gene ID	1513
Gene Symbol	CATK
Other Names	
CTSK, CTSO, CTSO3	
Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC;
Recombinant	Yes
Results	The specific activity is >1000 mU/mg (1U = 1 µmole/min/mg) as measured by Cathepsin K Activity Assay Kit

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, human 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 Cytomety
- Cell Culture

Procathepsin K, human recombinant protein - Images

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Procathepsin K, human 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 synthesized as an inactive proenzyme (35.1 kDa) that is converted to its mature active form (23.6 kDa) by proteolytic cleavage of its 99-amino-acid propeptide domain. The in-vitro processing of procathepsin K to mature cathepsin K is autocatalytic.