Procathepsin K (human), (recombinant)

Member of the papain cysteine proteinase family identified as the predominant proteinase responsible for the resorption of the bone matrix.

Citations: 2 View Online »

Ordering Information

Order Online »

ALX-201-239-C010	10µg

Manuals, SDS & CofA

View Online »

Handling & Storage

Use/Stability	Stable for several months when stored at -80°C. After activation, cathepsin is highly autoproteolytic. When not used immediately, add MMTS (Methyl methanethiosulfonate) to 1mM final concentration for stabilization and shock freeze in liquid nitrogen. Do not store dilutions of the enzyme.
Handling	Avoid freeze/thaw cycles.
Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Procathepsin O, Procathepsin O2, Procathepsin X
Concentration	150µg/ml
Formulation	Liquid. In 25mM TRIS, pH 8.0, containing 500mM sodium chloride.
MW	~35kDa
Purity	≥95% (SDS-PAGE)
Source	Produced in *E. coli* (aa 19-329). Methionine was introduced at aa 18 to create a new N-terminal sequence (MEEIL).
Specific Activity	≥1’000mU/mg protein. One unit is defined as the amount of enzyme that hydrolyzes 1µmol of substrate per min. at 37°C, pH 5.5.
Technical Info / Product Notes	**Inhibitors:** Cathepsin K is inhibited by leupeptin (Prod. No. ALX-260-009) (IC_{50}=70nM), E-64 (IC_{50}=5nM) or cystatine. Minimal effects exhibit pepstatin, phenylmethylsulfonyl fluoride (Prod. No. ALX-270-184), inhibitors of aspartyl and serine proteases. No inhibition was observed by addition of EDTA or phenanthroline, classical inhibitors of metalloproteases.
UniProt ID	P43235

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