Cathepsin K (human), (recombinant)

Highly active cysteine protease

Cathepsin K, a member of the papain family of cysteine proteases, acts upon proteins such as collagen, AL amyloid, kinin, and elastin. It is a lysosomal protease expressed primarily in osteoclasts, but also in other cell types such as macrophages. It functions in bone remodeling and is implicated in disease states such as osteoporosis, atherosclerosis, arthritis, and pycnodysostosis.

Citations: 15

View Online »

Ordering Information

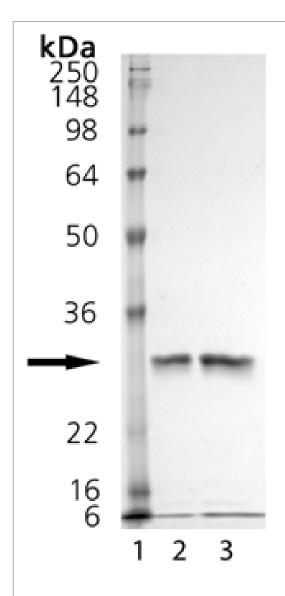
Order Online »

BML-SE553-0010

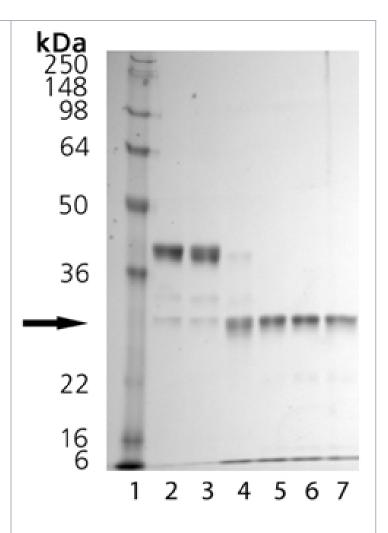
10µg

Manuals, SDS & CofA

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SDS-PAGE Analysis. Lane 1: MW Marker, Lane 2: 1 μg , Lane 3: 2 μg Cathepsin K



Activation of ProCathepsin K. Lanes 2-7 each contain 1 μ g of total protein during time-course activation at low pH. Lane 2: pre-activation, Lane 3: 0 min, Lane 4: 1 hr, Lane 5: 2 hr, Lane 6: 3 hr, Lane 7: 4 hr.

Handling & Storage

Use/Stability Stable for at least 6 months after receipt when stored at -80°C.

Handling Keep on dry ice. Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -

80°C.

Long Term Storage -80°C

Shipping Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name Cathepsin O, Cathepsin O2

Formulation Liquid. In 50mM sodium acetate, pH 5.5, containing 50mM

sodium chloride, 0.5mM EDTA and 5mM DTT.

MW ~26kDa

Purity ≥95% (SDS-PAGE)

Source Produced in insect cells. Purified as full-length proenzyme

(see Prod. No. BML-SE367), then auto-activated at low pH. Produced in a baculovirus expression system.

Specific Activity ≥1.5 U/mg. One unit hydrolyzes 1µmol Z-Phe-Arg-AMC

substrate (OMNICATHEPSIN® Fluorogenic Substrate,

Prod. No. BML-P139) per min. at 37°C.

UniProt ID P43235

Last modified: May 29, 2024

