Cathepsin B, Active, human recombinant

CATALOG #: 7580-5  5 µg
               7580-50  50 µg
               7580-1000 1 mg

ALTERNATIVE NAMES: CTSB, CPSB

SOURCE: E. coli

FORM: Liquid.

FORMULATION: 0.5 mg/ml solution of protein in 25 mM sodium acetate, 50 mM NaCl, pH 5.0 containing 50% glycerol.

PURITY: ≥90% by SDS-PAGE

MOL. WT.: 27.8 kDa (80-333 aa)

STORAGE CONDITIONS: Stable for at least 1 year as supplied. Dilute in de-ionized water to 0.1 mg/ml and store at −80°C. Avoid repeated freezing and thawing cycles.

BACKGROUND: Cathepsin B is a lysosomal cysteine protease. It is implicated in playing a role in protein degradation, arthritis, apoptosis, and cancer.

ACTIVITY ASSAY: BioVision’s Active Cathepsin B has been activated through auto-catalytic activation of Procathepsin B (Cat # 7579) at low pH. The enzyme is fully active as seen from its ability to cleave a fluorogenic substrate Z-AArg-AArg-AFC (K140A100).

APPLICATIONS: Recombinant Cathepsin B is useful in inhibitor screening, kinetic studies and cleavage of substrates in vitro or in tissue culture.

SPECIFIC ACTIVITY: >7500 mU/mg (1U = 1 µmole/min digestion of Ac-Arg-Arg-AFC substrate (K140-100)).

For Research Use Only! Not to be used in humans.