Enterokinase, Light Chain, human recombinant

**CATALOG #:** 7529-10 10 µg  
7529-50 50 µg  
7529-500 500 µg

**ALTERNATE NAMES:** Enteropeptidase, Serine protease 7, Transmembrane protease serine 15

**SOURCE:** E. Coli

**PURITY:** ≥90% by SDS-PAGE and SEC analyses

**MOL. WEIGHT:** 26.3 kDa

**FORM:** Liquid

**FORMULATION:** 0.5 mg/ml in 25 mM Tris, 50 mM NaCl (pH 8.0) containing 50% glycerol.

**STORAGE CONDITIONS:** Stable for 1 year when stored at –80°C. Use as provided, or dilute to 0.1-0.2 mg/ml with 25 mM Tris, 50 mM NaCl (pH 8.0) containing 50% glycerol. Aliquot and store at -80°C. Avoid repeated freeze and thaw cycles as this may reduce its overall activity over time.

**ACTIVITY ASSAY:** BioVision’s Enterokinase, Light Chain, has been tested for its ability to cleave a fluorogenic substrate Ac-DDDDK-AFC (Catalog # K758-100).

**SPECIFIC ACTIVITY:** >12,000 mU/mg (1 U = Cleavage of 1 µmole per min of Ac-DDDDK-AFC at 37°C in 50 mM Tris, 1 mM CaCl₂, 0.1% Tween 20, pH 8.0).

**DESCRIPTION:** Enterokinase (EC 3.4.21.9) is a serine protease involved in the activation of trypsinogen to trypsin, which in turn results in the activation of various digestive enzymes. It recognizes a highly specific amino acid sequence ‘DDDDK’ and cleaves after the lysine residue. High specific activity of enterokinase has been utilized in cleaving a variety of native or fusion protein tags containing the above recognition motif.

**INHIBITORS:** Enterokinase is inhibited in the presence of the protease inhibitors, such as Aprotinin, PMSF and benzamidine. Excess amount of imidazole (>50 mM) and/or NaCl (>250 mM) reversibly interferes and inhibits enterokinase activity.

**APPLICATIONS:** Recombinant Enterokinase can be used for protein digestion, protein expression techniques, functional studies and as controls for WB, ELISA, etc.

**FOR RESEARCH USE ONLY! Not to be used in humans.**