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32-20666: Recombinant Lysobacter Enzymogenes Arg-C(Discontinued)

Description

Source:Â Hi-5 Insect cells
Proteases (also called Proteolytic Enzymes, Peptidases, or Proteinases) are enzymes that hydrolyze the amide bonds within proteins or peptides. Most proteases act in a specific manner, hydrolyzing bonds at, or adjacent to specific residues, or a specific sequence of residues contained within the substrate protein or peptide. Proteases play an important role in most diseases and biological processes, including prenatal and postnatal development, reproduction, signal transduction, the immune response, various autoimmune and degenerative diseases, and cancer. They are also an important research tool, frequently used in the analysis and production of proteins. Arg-C specifically cleaves at the carboxyl side of Arginine residues. Arg-C has a sulfhydryl requirement; it is activated by dithiothreitol, cysteine, or other sulfhydryl-containing reagents. The presence of calcium ions is essential. The enzyme is inhibited by oxidizing agents and sulfhydryl reactants, and by Co2+, Cu2+, Cd2+, and heavy metal ions. Recombinant Lysobacter Enzymogenes Arg-C is a 26.8 kDa protease consisting of 252 amino acid residues including a C-terminal His-Tag.

Product Info

Amount : 5 µg / 20 µg
Purification : Purity:>= 98% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : GVGDIGSSDY CEKDIVCRVK PSAEFLSASK SVARMVFTPK TGYTGYCSGT LLNNSNSPKR QLFWSAAHCI STQKVANTLQ TYWLYDATGC DNDTLSDKAV TLTGGATLLH SHATRDTLLL ELKSAPPSGA YYAGWNSSAI ATKGTAIEGI HHPSGDLKKY SLGSVTALSS TIDGKKPLTK VAWTTGVTEG GSSGSGLFTI SSTSGYQLRG GLYGGTSYCS APSDPDYYSQ LDGVWSSIKT YFSPHHHHHH HH

Application Note

The reaction is measured as an increase in absorbance at 253 nm resulting from the hydrolysis of N-benzoyl-L-arginine ethyl ester (BAEE).