

Active Recombinant Lysobacter Enzymogenes Arg-C, His-tagged

Cat. No. CED41 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Lysobacter Enzymogenes Arg-C is a 26.8 kDa protease consisting of 252 amino acid residues including a C-terminal His-Tag.
Species	Lysobacter
Source	Hi-5 Insect Cells
Description	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.
Bio-activity	The reaction is measured as an increase in absorbance at 253 nm resulting from the hydrolysis of N-benzoyl-L-arginine ethyl ester (BAEE).
AA Sequence	GVGDIGSSDY CEKDIVCRVK PSAEFLSASK SVARMVFTPK TGYTGYCSGT LLNNSNSPKR QLFWSAAHCI STQKVANTLQ TYWLYDATGC DNDTLSDKAV TLTGATLLH SHATRDLLLL ELKSAPPSGA YYAGWNSSAI ATKGTAIEGI HHPGDLKKY SLGSVTALSS TIDGKKPLTK VAWTTGVTEG GSSGSGLFIT

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SSTSGYQLRG GLYGGTSYCS APSDPDYYSQ LDGVWSSIKT YFSPHHHHHH HH

Purity Greater than 98% by SDS-PAGE gel and HPLC analyses.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Background

Introduction

Arg-C specifically cleaves at the carboxyl side of Arginine residues. Arg-C has a s ulfhydryl 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.

Keywords

Lysobacter Enzymogenes Arg-C; Recombinant Lysobacter Enzymogenes Arg-C

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