

Recombinant Lysobacter Enzymogenes Arg-C - Purified

Alternate names:	ler
Catalog No.:	AR31092PU-S
Quantity:	5 µg
Background:	<p>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.</p>
Uniprot ID:	O87544
NCBI:	69
Species:	Rat
Source:	High-5 Insect cells
Format:	State: Lyophilized purified protein Purity: >98% by SDS-PAGE gel and HPLC analyses
Description:	<p>Recombinant Lysobacter Enzymogenes Arg-C is a 26.8 kDa protease consisting of 252 amino acid residues including a C-terminal His-Tag.</p> <p>AA Sequence: GVGDIGSSDY CEKDIVCRVK PSAEFLSASK SVARMVFTPK TGYTGYCSGT LLNNSNSPKR QLFWSAAHCI STQKVANTLQ TYWLYDATGC DNDTSLDKAV TLTGGATLLH SHATRDLLL ELKSAPPSGA YYAGWNSSAI ATKGTAIEGI HHPGDLKKY SLGSVTALSS TIDGKPLTK VAWTTGVTEG GSSGSLFTI SSTSGYQLRG GLYGGTSYCS APSDDYYSQ LDGVWSSIKT YFSPHHHHH HH</p> <p>Biological 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).</p> <p>Molecular weight: 26.8 kDa</p>
Storage:	<p>Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.</p>