

Protease 7/OmpT Protein, E.coli (His-SUMO)

Cat. No.:	HY-P71474
Synonyms:	ompT; Z1931; ECs1663; Protease 7; EC 3.4.23.49; OmpT; Outer membrane protein 3B; Protease A; Protease VII
Species:	E.coli
Source:	E. coli
Accession:	P58603 (21S-317F)
Gene ID:	913212
Molecular Weight:	Approximately 49.5 kDa

PROPERTIES

AA Sequence	<pre> S T E T L S F T P D N I N A D I S L G T L S G K T K E R V Y L A E E G G R K V S Q L D W K F N N A A I I K G A I N W D L M P Q I S I G A A G W T T L G S R G G N M V D Q D W M D S S N P G T W T D E S R H P D T Q L N Y A N E F D L N I K G W L L N E P N Y R L G L M A G Y Q E S R Y S F T A R G G S Y I Y S S E E G F R D D I G S F P N G E R A I G Y K Q R F K M P Y I G L T G S Y R Y E D F E L G G T F K Y S G W V E A S D N D E H Y D P K G R I T Y R S K V K D Q N Y Y S V S V N A G Y Y V T P N A K V Y V E G T W N R V T N K K G N T S L Y D H N D N T S D Y S K N G A G I E N Y N F I T T A G L K Y T F </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Protease 7, also known as OmpT, showcases a distinct proteolytic capacity with the ability to cleave various substrates, including T7 RNA polymerase, ferric enterobactin receptor protein (FEP), antimicrobial peptide protamine, and several other proteins. This protease exhibits a notable specificity for paired basic residues, emphasizing its role in the selective
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cleavage of substrates with such structural motifs. The versatility of Protease 7/OmpT in targeting proteins with paired basic residues underscores its significance in diverse biological processes and protein regulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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