

## Ecotin Protein, E. coli (His)

Cat. No.:	HY-P79083
Synonyms:	Ecotin
Species:	E.coli
Source:	E. coli
Accession:	NP_416713 (A21-R162)
Gene ID:	946700
Molecular Weight:	Approximately 18 kDa

### PROPERTIES

AA Sequence	<pre> A E S V Q P L E K I   A P Y P Q A E K G M   K R Q V I Q L T P Q   E D E S T L K V E L L I G Q T L E V D C   N L H R L G G K L E   N K T L E G W G Y D   Y Y V F D K V S S P V S T M M A C P D G   K K E K K F V T A Y   L G D A G M L R Y N   S K L P I V V Y T P D N V D V K Y R V W   K A E E K I D N A V   V R </pre>
Biological Activity	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH <sub>2</sub> . The IC <sub>50</sub> value is <1.4 nM.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of Tris and NaCl or 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
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 <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	Ecotin is a protein inhibitor that regulates protease activity in bacteria. It specifically inhibits several serine proteases, including trypsin and subtilisin. This regulatory role allows bacteria to control protease-mediated processes, impacting various cellular functions. Ecotin's interaction with proteases involves a unique surface loop that forms a stable complex, influencing enzymatic activity. This protein plays a crucial role in bacterial physiology and is of interest in studying protease inhibition mechanisms.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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