

## MetC Protein, E.coli (E. coli, His)

<b>Cat. No.:</b>	HY-P71694
<b>Synonyms:</b>	metC; b3008; JW2975Cystathionine beta-lyase MetC; CBL; CL; CD; EC 4.4.1.28; Cysteine lyase MetC; Cysteine-S-conjugate beta-lyase MetC
<b>Species:</b>	E.coli
<b>Source:</b>	E. coli
<b>Accession:</b>	P06721 (1M-392A)
<b>Gene ID:</b>	946240
<b>Molecular Weight:</b>	Approximately 46.8 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> MADKKLDTQL   VNAGRSKKYT   LGAVNSVIQR   ASSLVFDSVE AKKHATRNRAN  NGELFYGRRG   TLTHFSLQQA   MCELEGGAGC VLFPCGAAAV    ANSILAFIEQ   GDHVLMTNTA   YEPSQDFCSK ILSKLGVTTSS   WFDPLIGADI   VKHLQPNTKI   VFLESPGSIT MEVHDVPAIV    AAVRSVVPDA   IIMIDNTWAA   GVLFKALDFG IDVSIQAATK    YLVGHS DAMI   GTAVCNARCW   EQLRENAYLM GQMVDADTAY    ITSRGLRTL G   VRLRQHHESS   LKVAEWLAEH PQVARVNHPA    LPGSKGHEFW   KRDFGTGSSGL  FSSFVLKKKLN NEELANYLDN    FSLFSMAYSW   GGYESLILAN   QPEHIAAIRP QGEIDFSGTL    IRLHIGLEDV   DDLIADLDAG   FA           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The MetC protein serves as a multifunctional enzyme with a primary role in catalyzing the cleavage of cystathionine to homocysteine, pyruvate, and ammonia, a critical step in methionine biosynthesis. Beyond its primary function, MetC demonstrates cysteine desulfhydrase activity, converting cysteine into sulfide. Moreover, under specific growth conditions,
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the protein exhibits noteworthy coactivity as an alanine racemase. This versatile enzymatic repertoire highlights MetC's involvement in diverse metabolic pathways, showcasing its capacity to contribute to the intricate regulation of amino acid metabolism and biosynthetic processes.

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

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