

## MecA Protein, *S. aureus* (His-SUMO)

Cat. No.:	HY-P71476
Synonyms:	mecA; MW0880Adapter protein MecA
Species:	Staphylococcus aureus
Source:	E. coli
Accession:	P60186 (1M-239E)
Gene ID:	/
Molecular Weight:	Approximately 44.3 kDa

### PROPERTIES

AA Sequence	<pre> M R I E R V D D T T   V K L F I T Y S D I   E A R G F S R E D L   W T N R K R G E E F F W S M M D E I N E   E E D F V V E G P L   W I Q V H A F E K G   V E V T I S K S K N E D M M N M S D D D   A T D Q F D E Q V Q   E L L A Q T L E G E   D Q L E E L F E Q R T K E K E A Q G S K   R Q K S S A R K N T   R T I I V K F N D L   E D V I N Y A Y H S N P I T T E F E D L   L Y M V D G T Y Y Y   A V H F D S H V D Q   E V I N D S Y S Q L L E F A Y P T D R T   E V Y L N D Y A K I   I M S H N V T A Q V   R R Y F P E T T E           </pre>
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 <sub>2</sub> 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	<p>The MecA protein, characterized by its homodimeric structure, serves a pivotal role in cellular protein quality control. Its primary function involves the recognition and precise targeting of unfolded and aggregated proteins, directing them either to the ClpC protease or to other proteins participating in proteolysis. Through its homodimeric configuration, MecA demonstrates a remarkable ability to engage with a diverse array of substrates, orchestrating their efficient degradation within the cellular proteolytic network. This process is integral for maintaining cellular integrity by preventing the accumulation of misfolded or aggregated proteins that could otherwise compromise cellular functions. The MecA protein thus stands as a key player in cellular proteostasis, ensuring the timely removal of aberrant proteins to safeguard overall</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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