

## FabI Protein, *S. aureus*, Recombinant (His & SUMO)

### General Information

Synonyms:	ENR;NADPH-dependent enoyl-ACP reductase;Enoyl-[acyl-carrier-protein] reductase [NADPH] FabI;fabI
Protein Construction:	1-256 aa
Species:	<i>Staphylococcus aureus</i>
Expression Host:	<i>E. coli</i>
Accession:	Q6GI75
Molecular Weight:	44.0 kDa (predicted)
AA Sequence:	MLNLENKTYVIMGIANKRSIAFGVAKVLVDQLGAKLVFTYRKERSRKELEKLLQLNQPEAHLYQIDVQSDEEVI NGFEQIGKDVGNIDGVYHSIAFANMEDLRGRFSETSREGFLLAQDISSYSLTIVAHEAKKLMPEGGSSIVATTYLG GEFAVQNYNVMGVAKASLEANVKYLALDLGPDNIRVNAISAGPIRTLSAKGVGGFNTILKEIEERAPLKRNV QVEVGKTAAYLLSDLSSGVTGENIHVDSGFHAIK

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Catalyzes the reduction of a carbon-carbon double bond in an enoyl moiety that is covalently linked to an acyl carrier protein (ACP). Involved in the elongation cycle of fatty acid which are used in the lipid metabolism.

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