

# E. coli BirA / Bifunctional protein BirA (His & MBP Tag)



Catalog Number: 501990

## General Information

### Gene Name Synonym

Biotin operon repressor; Biotin--[acetyl-CoA-carboxylase] ligase; Biotin--protein ligase; Biotin-[acetyl-CoA carboxylase] synthetase

### Protein Construction

A DNA sequence encoding the E.coil BirA (P06709) (Met1-Lys321) was fused with an N-terminal polyhistidine-tagged MBP tag at the N-terminus.

### Organism

E. coli

### Expression Host

E. coli

## QC Testing

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

Please contact us for more information.

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Met

### Molecular Mass

The recombinant E.coil BirA/MBP fusion protein consists of 713 amino acids and has a calculated molecular mass of 78.3 kDa. It migrates as an approximately 64-68 kDa band in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 50mM Tris, 100mM NaCl, 10% Glycerol, pH 8.0.

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

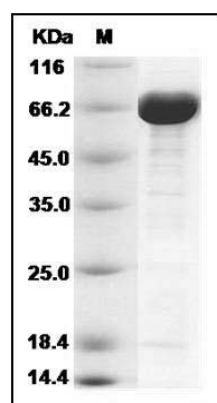
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



E. coli Bifunctional protein BirA (His & MBP Tag) SDS-PAGE