

## Recombinant Escherichia coli O157:H7 birA Protein (M1-K321), His-tagged

Cat. No. birA-1439E Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Escherichia coli O157:H7 N-6His-BirA protein with a His tag was expressed in E. coli
<b>Species</b>	E.coli
<b>Source</b>	E.coli
<b>ProteinLength</b>	M1-K321
<b>Description</b>	Acts both as a biotin--[acetyl-CoA-carboxylase] ligase and a biotin-operon repressor. In the presence of ATP, BirA activates biotin to form the BirA-biotinyl-5'-adenylate (BirA-bio-5'-AMP or holoBirA) complex. HoloBirA can either transfer the biotinyl moiety to the biotin carboxyl carrier protein (BCCP) subunit of acetyl-CoA carboxylase, or bind to the biotin operator site and inhibit transcription of the operon.
<b>Form</b>	Liquid
<b>Endotoxin</b>	< 0.01 EU/μg of the protein
<b>Purity</b>	90%
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade

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<b>Storage</b>	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
<b>Shipping</b>	It is shipped out with blue ice.

## GENE INFORMATION

<b>Gene Name</b>	birA bifunctional protein BirA [ <i>Escherichia coli</i> O157:H7 str. Sakai ]
<b>Official Symbol</b>	birA
<b>Synonyms</b>	birA; bifunctional protein BirA; bifunctional protein BirA
<b>Gene ID</b>	914965
<b>Protein Refseq</b>	NP_312927
<b>UniProt ID</b>	Q8X709

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