Recombinant E.coli K12 BirA Protein

Catalog No.: RPT0040LQ

Sequence Information

Species
E.coli K12

Gene ID
P06709

Swiss Prot
948469

Tags
NO tag

Synonyms
birA, bioR, dhbB, b3973, JW3941, Bifunctional ligase/repressor BirA

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
35.18 kDa

Observed MW
35-45 kDa

Endotoxin
< 0.01 EU per μg of the protein as determined by the LAL method.

Formulation
Lyophilized from 0.22μm filtered solution in 20mM Tris 100mM Nacl pH7.5 、10% Glycerol.

Reconstitution

Background

BirA is a key reagent because of its ability to biotinylate proteins at a specific residue in a recognition sequence. This enzyme is used to biotinylate the C termini of membrane proteins, allowing these proteins to be tetramerized by binding to streptavidin. Because of the specificity of the biotinylation at the C terminus, the orientation of the membrane proteins on the streptavidin is equivalent to that of the native protein on the cell surface. These tetrameric proteins can be used to study protein receptor-ligand interactions at the cell surface, and site-specific biotinylation can be used to study proteins in vitro using a defined orientation. The biotinylation of histones by BirA ligase is consistent with the proposed role of human HCS in chromatin. The N-terminal BirA domain is required for both transcriptional regulation of biotin synthesis and biotin protein ligase activity.

Basic Information

Description
Recombinant E.coli K12 BirA Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys2-Lys321) of E.coli K12 BirA(Accession #NP_418404.1) fused with No Tag.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

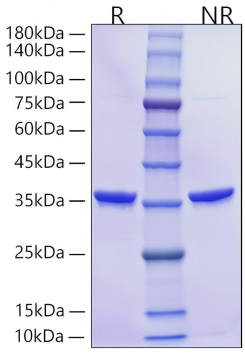
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant E.coli K12 BirA Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.

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