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Data Sheet

BirA, GST-tag

Recombinant, N-terminal GST-tag
Catalog #: 70031
Lot#: 120727 **Conc.:** 1.25 mg/ml

Formulated in: 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 16 mM glutathione, 3 mM DTT, and 20% glycerol.

Stability: At least 6 months at -70°C . Avoid freeze/thaw cycles.

References:

1. Li, Y., *et al.*, *Protein Expr. Purif.* 2012 Mar; **82(1)**: 162-7.
2. Chakravarty, V., *et al.*, *J. Bacteriol.* 2012 Mar; **194(5)**: 1113-26.

Description:

Biotin ligase BirA, GenBank Accession No. NP_418404, a.a. 2 – 321 with N-terminal GST-tag, MW = 61 kDa, expressed in an *E. coli* cell expression system.

Assay Conditions:

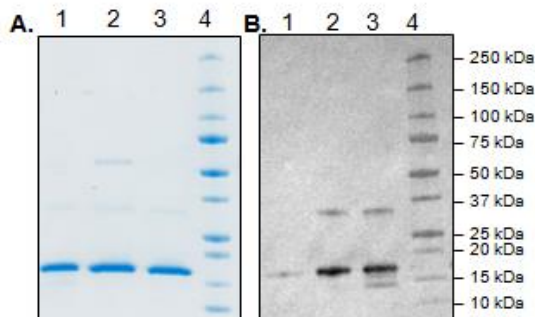
BirA (16 $\mu\text{g/ml}$) completely biotinylated 10 μM of Avi-tag substrate at 30°C for 30 minutes in reaction buffer containing 50 mM Bicine pH 8.3, 10 mM ATP, 10 mM MgOAc, and 50 μM d-Biotin.

Application:

Useful for covalently biotin-labeling of acceptor proteins for detection and purification assays.

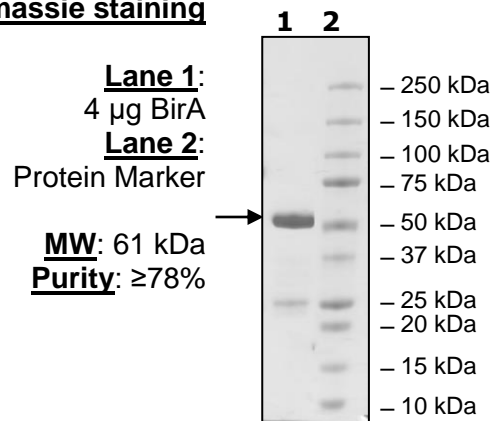
Quality Assurance

BirA Biotinylation Assay



BRD4-Avi biotin-labeling with GST-BirA using the reaction conditions as outlined in **Enzyme Activity**. **A.** Coomassie blue stained gel showing (1) unbiotinylated BRD4-Avi, (2) GST-BirA/BRD4-Avi, (3) BRD4-Avi-biotin control and (4) protein markers (BioRad, #161-0374). **B.** The corresponding Western blot probed with Streptavidin-HRP and developed with ECL reagent.

10% SDS-PAGE Coomassie staining



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Sequence:

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYI
DGDVKLTQSMARIYIADKHNMLGGCPKERAIEISMLEGAVLDIRYGVSRAYSKDFETLK
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LIRELRAALELFEQEGAPYLSRWEKLDNFNRPVKLIIGDKEIFGISRGIDKQGALLLE
QDGIIPWMGGEISLRSKAEK

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