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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Data Sheet

BirA-transformed Competent *E. coli* cells

Catalog #27462

BACKGROUND: Biotin-labeling is commonly used for non-radioactive labeling and purification of proteins and other target molecules. Biotin labeling takes advantage of the exceptionally strong interaction between biotin (vitamin H) and either avidin or streptavidin. The affinity of biotin to avidin or streptavidin is one of the strongest known non-covalent interactions of a protein and ligand, exhibiting a dissociation constant (K_d) around 10^{-15} . BirA protein ligase covalently adds biotin to biotin-acceptor peptides containing an AviTag™ sequence in a highly efficient and specific ATP-dependent reaction.

DESCRIPTION: *BirA-transformed Competent E. coli cells* are supplied as 10 x 50 µl vials. Strain BL21, a chemically competent *E. coli* B strain, contains an IPTG-inducible BirA expression plasmid and constitutively-expressed streptomycin/spectinomycin resistance gene. These cells are compatible with most cloning vectors and are suitable for expression and biotinylation of recombinant proteins using AviTag™ technology.

APPLICATIONS: Useful for specific labeling of proteins/peptides with biotin for downstream applications.

STABILITY: One year from date of receipt when stored at -80°C.

ASSAY PROTOCOL: For a detailed protocol, please see BPS Bioscience's *E. coli in vivo* Biotinylation Kit, Cat. #27461.

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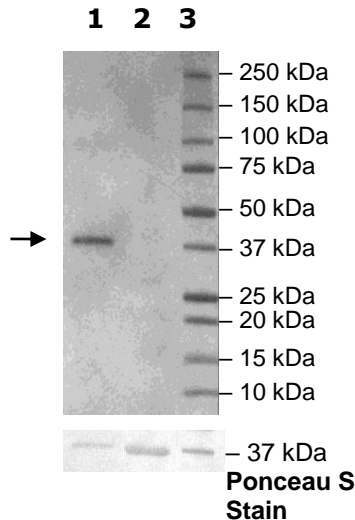
Please visit our website at: [**www.bpsbioscience.com**](http://www.bpsbioscience.com)

QUALITY CONTROL:

4-20% SDS-PAGE

Lane 1:
 RAF1 + biotin
Lane 2:
 RAF1 - biotin
Lane 3:
 Protein Marker

MW: 39 kDa



Biotinylation was confirmed using the *E. coli in vivo* Biotinylation Kit, Cat. #27461 and a RAF1-GST-AviTag™ expression construct following the recommended protocol. RAF1 expressing lysates were incubated with (Lane 1) or without (Lane 2) biotin and RAF1 was purified using sequential GST- and avidin-affinity chromatography. Purified RAF1 was tested for biotinylation by SDS-PAGE and Streptavidin-HRP detection.

RELATED PRODUCTS

	<u>CATALOG #</u>	<u>SIZE</u>
<i>E. coli in vivo</i> Biotinylation Kit	27461	10 rxns.
BirA, GST-tag	70031	100 µg
BirA, His-FLAG-tags (<i>E. coli</i> -derived)	70030	100 µg
BirA, His-FLAG-tags (<i>Sf9</i> -derived)	70032	50 µg

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