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BirA Ligase (N-GST)

Catalog Number:	604101, 604102
Size:	25 ug, 100 ug
Target Name:	BirA ligase
Regulatory Status:	RUO

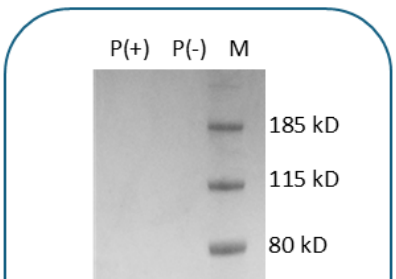
PRODUCT DETAILS

Application:	Enzymatic reaction
Format:	Liquid, Purified
Expression Host:	E.coli
Species:	Escherichia coli
Accession Number:	P06709
Sources:	BirA ligase with N-terminus GST is expressed in E.coli cells.
Molecular Weight:	This protein has a predicted molecular weight of 62.2 kDa. Under DTT-reducing conditions, the protein migrates at approximately 65 kDa on SDS-PAGE.
Affinity Tag:	N-GST
Purity:	>95% based on SDS-PAGE under reducing condition
Formulation:	20mM Tris, 300mM NaCL, 5mM DTT, 10% glycerol
Endotoxin level:	Not tested
Protein Concentration:	25µg size is bottled at 0.3mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.
Storage and Handling:	Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm filtered Tris PH 7.5 buffer. For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ –70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

BACKGROUND INFORMATION

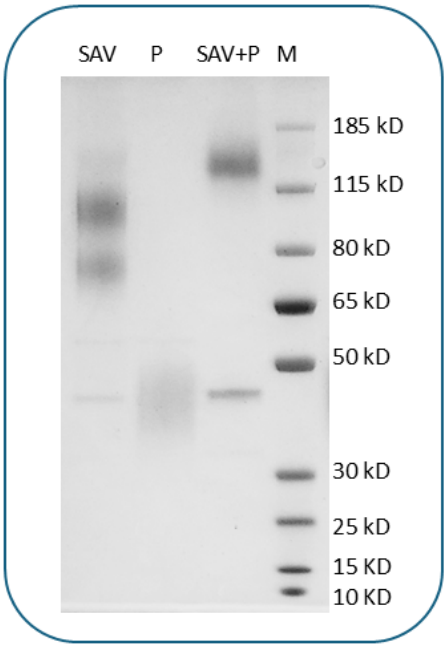
The BirA ligase is a key reagent because of its ability to biotinylate the target protein at specific site

PRODUCT DATA



Purified BirA (N-GST) final product on SDS-PAGE under

non-reducing (P-) and reducing (P+) conditions. The purity of BirA ligase appears to be greater than 95%.



Human Tim-3 (C-His-Avi) Protein is biotinylated by BirA ligase in vitro in BirA buffer. Based on Gel shift Assay by co-incubation with Streptavidin, biotinylation efficiency is >90% for Biotinylated Tim-3.