InnoCyto Inc.
15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618

Technical Data Sheet

BirA Ligase (N-GST)

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

Product Details

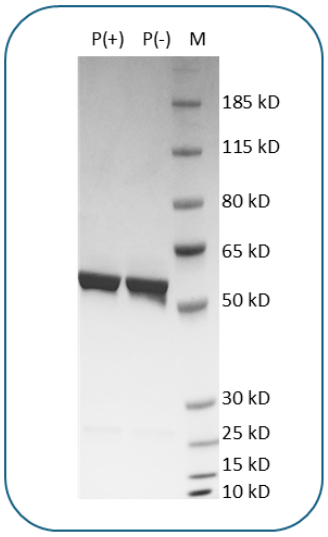
Application: Enzymatic reaction
Format: Liquid, Purified
Expression Host: E.coli
Species: Escherichia coli
Accession Number: P06709
Sources: BirA ligase with N-terminus GST is expressed in E.coli cells.
Molecular Weight: This protein has a predicted molecular weight of 62.2 kDa. Under DTT-reducing conditions, 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

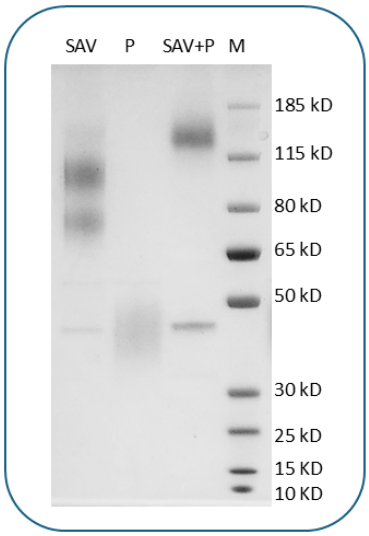
The BirA ligase is a key reagent because of its ability to biotinylate the target protein at specific site

Product Data

InnoCyto Inc.
15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618



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.