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Product Data Sheet

BirA Protein, E. coli (His-MBP)

Cat. No.:	HY-P75475
Synonyms:	Bifunctional ligase/repressor BirA; birA; bioR; dhbB
Species:	E.coli
Source:	E. coli
Accession:	P06709 (M1-K321)
Gene ID:	948469
Molecular Weight:	64-68 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 100 mM NaCl, 10% Glycerol, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH$_2$O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	WBP2 protein functions as a transcriptional coactivator for estrogen and progesterone receptors (ESR1 and PGR) upon hormone activation, binding to ESR1-responsive promoters in the presence of estrogen. It is essential for the coactivation function of YAP1 on PGR activity and synergizes with WBP2 in enhancing PGR activity. Additionally, WBP2 modulates the expression of post-synaptic scaffolding proteins through the regulation of ESR1, ESR2, and PGR. WBP2 interacts with the WW domain of YAP1, WWP1, and WWP2, and also forms interactions with NEDD4. Moreover, it associates with ESR1 and UBE3A, contributing to its role as a transcriptional coactivator in hormone-responsive pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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