

## Recombinant Human ARNTL Protein, His-tagged

Cat. No. ARNTL-247H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ARNTL Protein (Met1-Arg245) with N-His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Met1-Arg245
<b>Description</b>	The protein encoded by this gene is a basic helix-loop-helix protein that forms a heterodimer with CLOCK. This heterodimer binds E-box enhancer elements upstream of Period (PER1, PER2, PER3) and Cryptochrome (CRY1, CRY2) genes and activates transcription of these genes. PER and CRY proteins heterodimerize and repress their own transcription by interacting in a feedback loop with CLOCK/ARNTL complexes. Defects in this gene have been linked to infertility, problems with gluconeogenesis and lipogenesis, and altered sleep patterns. The protein regulates interferon-stimulated gene expression and is an important factor in viral infection, including COVID-19.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 31.2 kDa Accurate Molecular Mass: 35&13 kDa
<b>Purity</b>	> 90%

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<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ARNTL aryl hydrocarbon receptor nuclear translocator-like [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">ARNTL</a>
<b>Synonyms</b>	ARNTL; aryl hydrocarbon receptor nuclear translocator-like; aryl hydrocarbon receptor nuclear translocator-like protein 1; bHLHe5; BMAL1; JAP3; MOP3; PASD3; bHLH-PAS protein JAP3; member of PAS protein 3; member of PAS superfamily 3; brain and muscle ARNT-like 1; PAS domain-containing protein 3; ARNT-like protein 1, brain and muscle; basic-helix-loop-helix-PAS orphan MOP3; basic-helix-loop-helix-PAS protein MOP3; class E basic helix-loop-helix protein 5; TIC; BMAL1c; MGC47515
<b>Gene ID</b>	<a href="#">406</a>
<b>mRNA Refseq</b>	<a href="#">NM_001030272</a>

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**Protein Refseq** NP\_001025443

**MIM** 602550

**UniProt ID** O00327

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