

Recombinant Full Length Human ARNTL Protein, GST-tagged

Cat. No. ARNTL-1242HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ARNTL full-length ORF (AAH41129, 1 a.a. - 625 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	625 amino acids
Description	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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]
Molecular Mass	94.49 kDa
AA Sequence	MADQRMDISS TISDFMSPGP TDLLSSSLGT SGVDCNRKRK GSSTDYQESM DTDKDDPHGR LEYTEHQGRI KNAREAHSQI EKRRRDKMNS FIDELASLVP TCNAMSRKLD KLTVLRMAVQ HMKTLRGATN PYTEANYKPT FLSDDELKHL ILRAADGFLF VVGCDRGKIL FVSESVFKIL NYSQNDLIGQ SLFDYLHPKD

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IAKVKEQLSS SDTAPRERLI DAKTGLPVKT DITPGPSRLC SGARRSFFCR
 MKCNRPSVKV EDKDFPSTCS KKKDRKSFCT IHSTGYLKSW PPTKMGLDED
 NEPDNEGCNL SCLVAIGRLH SHVVPQPVNG EIRVKSMEYV SRHAIDGKFV
 FVDQRATAIL AYLPQELLGT SCYEYFHQDD IGHIAECHRQ VLQTREKITT
 NCYKFKIKDG SFITLRSRWF SFMNPWTKEV EYIVSTNTVV LANVLEGGDP
 TFPQLTASPH SMDSMLPSGE GGPKRTHPTV PGIPGGTRAG AGKIGRMIAE
 EIMEIHRIRG SSPSSCGSSP LNITSTPPPD ASSPGGKKIL NGGTPDIPSS
 GLLSGQAQEN PGYPYSDSSS ILGENPHIGI DMIDNDQGSS SPSNDEAAMA
 VIMSLLEADA GLGGPVDFSD LPWPL

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

ARNTL aryl hydrocarbon receptor nuclear translocator-like [Homo sapiens]

Official Symbol

ARNTL

Synonyms

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

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Gene ID	406
mRNA Refseq	NM_001030272
Protein Refseq	NP_001025443
MIM	602550
UniProt ID	O00327

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