

Recombinant Human ARNT, MYC/DDK-tagged

Cat. No. ARNT-18H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ARNT, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a protein containing a basic helix-loop-helix domain and two characteristic PAS domains along with a PAC domain. The encoded protein binds to ligand-bound aryl hydrocarbon receptor and aids in the movement of this complex to the nucleus, where it promotes the expression of genes involved in xenobiotic metabolism. This protein is also a co-factor for transcriptional regulation by hypoxia-inducible factor 1. Chromosomal translocation of this locus with the ETV6 (ets variant 6) gene on chromosome 12 have been described in leukemias. Alternative splicing results in multiple transcript variants.
Molecular Mass	86.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

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Gene Name	ARNT aryl hydrocarbon receptor nuclear translocator [Homo sapiens (human)]
Official Symbol	ARNT
Synonyms	ARNT; aryl hydrocarbon receptor nuclear translocator; bHLHe2; HIF 1beta; dioxin receptor, nuclear translocator; class E basic helix-loop-helix protein 2; hypoxia-inducible factor 1, beta subunit; HIF1B; TANGO; HIF1BETA; HIF-1beta; HIF1-beta; HIF-1-beta
Gene ID	405
mRNA Refseq	NM_001668
Protein Refseq	NP_001659
MIM	126110
UniProt ID	P27540
Chromosome Location	1q21
Pathway	AhR pathway; Cellular response to hypoxia; HIF-1 signaling pathway
Function	contributes_to RNA polymerase II distal enhancer sequence-specific DNA binding transcription factor activity; aryl hydrocarbon receptor activity; enhancer binding