

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	<p>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.</p>
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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

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