

# Recombinant Human ARNT Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** ARNT-3507H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	ARNT MS Standard C13 and N15-labeled recombinant protein (NP_848513) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	35.8 kDa
<b>AA Sequence</b>	MAATTANPEMTSDVPSLGPALASGNSGPGIQGGGAIVQRAIKRRPGLDFDDDGEGN SKFLRCDDDQMSNDKERFARSDDEQSSADKERLARENHSEIERRRRNKMTAYITEL SDMVPTCSALARKPDKLTILRMAVSHMKSLRGTGNTSTDGSYKPSFLTDQELKHLIL EAADGFLFIVSCETGRVVYVSDSVTPVLNQPQSEWFGSTLYDQVHPDDVDKLRQL STSENALTGRILDKTGTVKKEGQQSSMRMCMGSRRSFICRMRCGSSSVDPVSVN

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RLSFVRNRCRNLGSGVKDGEPHFVVVHCTGYIKAWPPAGVSLPDDDPATRTRPLE  
QKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**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\\_178426](#)

**Protein Refseq** [NP\\_848513](#)

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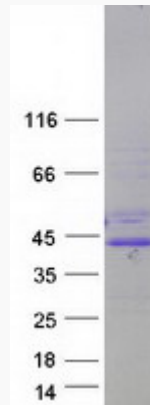
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**MIM** 126110

**UniProt ID** P27540

**SDS-PAGE**



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