

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

Cat. No. ARNT-1740H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ARNT MS Standard C13 and N15-labeled recombinant protein (NP_001659) with a C-terminal MYC/DDK tag, 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
AA Sequence	MAATTANPEMTSDVPSLGPAIASGNSGPGIQGGGAIVQRAIKRRPGLDFDDDGEGN SKFLRCDDDQMSNDKERFARSDDEQSSADKERLARENHSEIERRRRNKMTAYITEL SDMVPTCSALARKPDKLTILRMAVSHMKSLRGTGNTSTDGSYKPSFLTQELKHLIL EAADGFLFIVSCETGRVVYVSDSVTPVLNQPQSEWFGSTLYDQVHPDDVDKLRQL STSENALTGRILDLKTGTVKKEGQQSSMRMCMGSRRSFICRMRCGSSSVDPVSVN

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RLSFVRNRCRNLGSGVKDGEPHFVVHCTGYIKAWPPAGVSLPDDDPEAGQGSKF
 CLVAIGRLQVTSSPNCTDMSNVCQPTFISRHNIIEGIFTVDHRCVATVGYQPQELL
 GKNIVEFCHPEDQQLLRDSFQQVVKLKGQVLSVMFRFRSKNQEWLWMRTSSFTFQ
 NPYSDEIEYIICTNTNVKNSSQEPRPTLSNTIQRPLGPTANLPLEMGSGQLAPRQQ
 QQQTELDMPGRDGLASYNHSQVVQPVTGPEHSKPLEKSDGLFAQDRDPRFSE
 IYHNINADQSKGSSSTVPATQQLFSQGNTPPTPRPAENFRNSGLAPPVTIVQPSAS
 AGQMLAQISRHSNPTQGATPTWPTTRSGFSAQQVATQATAKTRTSQFGVGSFQT
 PSSFSSMSLPGAPTASPGAAAYPSLTNRGSNFAPETGQTAGQFQTRTAEGVGWVP
 QWQGQQPHHRSSSEQHVQPPAQPGQPEVFQEMLSMLGDQSNSYNNEEFPD
 LTMFPPFSETRTRPLEQKLISEEDLAANDILDYKDDDDKV

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;

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HIF-1-beta;

Gene ID 405

mRNA Refseq NM_001668

Protein Refseq NP_001659

MIM 126110

UniProt ID P27540

SDS-PAGE



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