

## Product datasheet for PH316724

### HIF1 beta (ARNT) (NM\_001668) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ARNT MS Standard C13 and N15-labeled recombinant protein (NP_001659)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216724
Predicted MW:	86.5 kDa
Protein Sequence:	>RC216724 representing NM_001668 Red=Cloning site Green=Tags(s)

MAATTANPEMTSDVPSLGPAAIASGNSGPGIQGGGAIIVQRAIKRRPGLDFDDDGEGNSKFLRCDDQMSND  
KERFARSDDEQSSADKERLARENHSEIERRRRNKMTAYITELSDMVPTCSALARKPKLTIILRMVSHMK  
SLRGTGNTSTDGSYKPSFLTDQELKHLILEAADGFLFIVSCETGRVVVYSDSVTPVLNQPQSEWFGSTLY  
DQVHPDDVDKLRQLSTSENALTGRILD LKTGTVKKEGQSSMRMCMGSRRSFICRMRCGSSSDVPVSVN  
RLSFVRNRCRNLG SVKDGEPHFVVHCTGYIKAWPPAGVSLPDDPEAGQGSKFCLVAIGRLQVTSSPN  
CTDMSNVCQPTFISRHNIEGIFTFVDHRCVATVGYQPQELLGKNIVEFCHPEDQQLLRDSFQQVVKLKG  
QVLSVMFRFRSKNQEWLWMRTSSF TFQNPYSDEIEYIICTNTNVKNSSQEP RP T L SNTIQRPLGPTANL  
PLEMGSQLAPRQQQQTELDMPGRDGLASYNHSQVVQPVT T T GPEHSKPLEKSDGLFAQDRDPRFSEI  
YHNINADQSKGISSTVPATQQLFSQGNTPPTPRPAENFRNSGLAPPVTIVQPSASAGQMLAQISRHSN  
PTQGATPTWPTTRSGFSAQQVATQATAKTRTSQFVGVSFQTPSSFSMSLPGAPTASPGAAAYPSLTNR  
GSNFAPETGQTAGQFQTRTAEGVGVWPQWQGGQPHRRSSSEQHVQQPPAQPGQPEVFQEMLSMLGDQS  
NSYNNEEF PDLTMFPFSE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001659</a>



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RefSeq Size:	4846
RefSeq ORF:	2367
Synonyms:	bHLHe2; HIF-1-beta; HIF-1beta; HIF1-beta; HIF1B; HIF1BETA; TANGO
Locus ID:	405
UniProt ID:	<a href="#">P27540</a>
Cytogenetics:	1q21.3

**Summary:** 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. [provided by RefSeq, Oct 2013]

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Pathways in cancer, Renal cell carcinoma

### Product images:



Coomassie blue staining of purified ARNT protein (Cat# [TP316724]). The protein was produced from HEK293T cells transfected with ARNT cDNA clone (Cat# [RC216724]) using MegaTran 2.0 (Cat# [TT210002]).