

Product datasheet for **TP316724M**

HIF1 beta (ARNT) (NM_001668) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human aryl hydrocarbon receptor nuclear translocator (ARNT), transcript variant 1, 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA >RC216724 representing NM_001668

Clone or AA **Red**=Cloning site **Green**=Tags(s)

Sequence:

MAATTANPEMTSDVPSLGPAIASGNSGPGIQGGGAIQRAIKRRPGLDFDDDGEGNSKFLRCDDDDQMSND
KERFARSDDEQSSADKERLARENHSEIERRRRNKMTAYITELSDMVPTCSALARKPKDLTILRMAVSHMK
SLRGTGNTSTDGSYKPSFLTDQELKHLILEAADGFLFVSCETGRVWVSDSVTPVLNQPQSEWFGSTLY
DQVHPDDVDKLRQLSTSENALTGRILDLKTGTVKKEGQQSSMRMCMGSRRSFICRMRCGSSSVDPVSVN
RLSFVRNRCRNLGSKVDGEPHFVWHCTGYIKAWPPAGVSLPDDDDPEAGQGSKFCLVAIGRLQVTSSPN
CTDMSNVCQPTFISRHNIEGIFTVDHRCVATVGYQPQELLGKNIVEFCHPEDQQLLRDSFQQVWKLKG
QVLSVMFRFRSKNQEWLWMRTSSFTFQNPYSDEIEYIICTNTNVKNSSQEPRPTLSNTIQRPQLGPTANL
PLEMGSGQLAPRQQQQQTELDMVPGRDGLASYNHSQVWQPVTGPEHSPLEKSDGLFAQDRDPRFSEI
YHNINADQSKGISSSTVPATQQLFSGQNTFPPTPRPAENFRNSGLAPPVTIVQPSASAGQMLAQISRHSN
PTQGATPTWPTTRSGFSAQQVATQATAKTRTSQFGVGSFQTPSSFSSMSLPGAPTASPGAAAAYPSLTNR
GSNFAPETGQTAGQFQTRTAEGVGVWPQWQGGQPHHRSSSEQHVVQPPAQQPGQPEVFQEMLSMLGDQS
NSYNNEEFDLTMFPPFSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 86.5 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_001659](#)

Locus ID: 405

UniProt ID: [P27540](#)

RefSeq Size: 4846

Cytogenetics: 1q21.3

RefSeq ORF: 2367

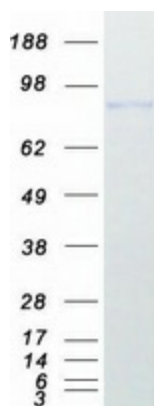
Synonyms: bHLHe2; HIF-1-beta; HIF-1beta; HIF1-beta; HIF1B; HIF1BETA; TANGO

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]).