

Product datasheet for **TP317284M**

HIF1 beta (ARNT) (NM_178426) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens aryl hydrocarbon receptor nuclear translocator (ARNT), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC217284 representing NM_178426 Red =Cloning site Green =Tags(s)

MAATTANPEMTSDVPSLGPAAISGNSGPGIQGGGAIVQRAIKRRPGLDFDDDGEGNSKFLRCDDDDQMSND
KERFARSSDEQSSADKERLARENHSEIERRRRNKMTAYITELSDMVPTCSALARKPKLTLIRMAVSHMK
SLRGTGNTSTDGSYKPSFLTDQELKHLILEAADGFLFVSCETGRVYVSDSVTPVLNQSQSEWFGSTLY
DQVHPDDVDKLRQLSTSENALTGRILDLTGTVKKEGQSSMRMCMGSRRSFICRMRCGSSSVDPVSVN
RLSFRNRNCRNGLGSVKDGEPHFVVHCTGYIKAWPPAGVSLPDDDDPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	35.8 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.
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_848513
Locus ID:	405



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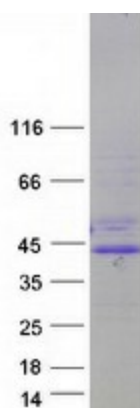
UniProt ID: [P27540](#)
RefSeq Size: 3563
Cytogenetics: 1q21.3
RefSeq ORF: 984
Synonyms: aryl hydrocarbon receptor nuclear translocator; bHLHe2; dioxin receptor, nuclear translocator; HIF-1beta; HIF1B; HIF1BETA; hypoxia-inducible factor 1, beta subunit; OTTHUMP00000032943; TANGO

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# [TP317284]). The protein was produced from HEK293T cells transfected with ARNT cDNA clone (Cat# [RC217284]) using MegaTran 2.0 (Cat# [TT210002]).