

Product datasheet for PH317284

HIF1 beta (ARNT) (NM_178426) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ARNT MS Standard C13 and N15-labeled recombinant protein (NP_848513)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217284
Predicted MW:	35.8 kDa
Protein Sequence:	>RC217284 representing NM_178426 Red =Cloning site Green =Tags(s) MAATTANPEMTSDVPSLGPAIASGNSGPGIQGGGAIQVQRAIKRRPGLDFDDDGEGNSKFLRCDDQMSND KERFARSDDEQSSADKERLARENHSEIERRRRNKMTAYITELSDMVPTCSALARKPKLTIILRMVSHMK SLRGTGNTSTDGSYKPSFLTDQELKHLILEAADGFLFIVSCETGRVVVYVSDSVTPVLNQPQSEWFGSTLY DQVHPDDVDKLRQLSTSENALTGRILDLTGTVKKEGQSSMRMCMGSRRSFICRMRCGSSSVDPVSVN RLSFVRNRCRNLGSKVDGEPHFVVHCTGYIKAWPPAGVSLPDDPA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	NP_848513
RefSeq Size:	3563
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



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Locus ID: 405

UniProt ID: [P27540](#)

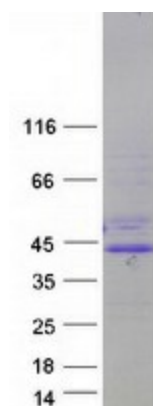
Cytogenetics: 1q21.3

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