

Product datasheet for TP510673

Arnt (NM_001037737) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse aryl hydrocarbon receptor nuclear translocator (Arnt), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210673 protein sequence Red =Cloning site Green =Tags(s)

MAATTANPEMTSDVPSLGPSTIASGNP GPGIQGGGAWVQRAIKRRSGLDFDDEVEVNTKFLRCDDDDQMCND
KERFARSDDEQSSADKERLARENHSEIERRRRNKMTAYITELSDMVPTCSALARKPKLTLIRMAVSHMK
SLRGTGNTSTDGSYKPSFLTDQELKHLILEAADGFLFVSCETGRVYVSDSVTPVLNQPQSEWFGSTLY
DQVHPDDVDKLRQLSTSENALTGRVLDLKTGTVKKEGQQSSMRMCMGSRRSFICRMRCGTSSVDPVSMN
RLSFLRNRCRNLGSGVKEGEPHFVVHCTGYIKAWPPAGVSLPDDDPEAGQGSKFCLVAIGRLQVTSSPN
CTDMSNICQPTFISRHNIEGIFTVDHRCVATVGYQPQELLGKNIVEFCHPEDQQLLRDSFQQVVKLKG
QVLSVMFRFRSKTREWLLWMRTSSFTFQNPYSDEIEYIICTNTNVKNSSQEPRTLSTNTIPRSQLGPTANL
SLEMGTGQLPSRQQQQHTELDMVPGRDGLASYNHSQVSVQPVASAGSEHSPLEKSEGLFAQDRDPRFP
EIYPSITADQSKGISSSTVPATQQLFSSQSSFPNPRPAENFRNSGLTPPVTVQPSSSAGQILAQISRH
SNPAQGSAPTWTSSSRPGFAAQVPTQATAKTRSSQFGVNNFQTSSSFSAMSLPGAPTASSGTAAYPALP
NRGSNFPPETGQTTGQFQARTAEGVGWVWPQWQGGQPPHRRSSSEQHVQQTQAQAPSQPEVFQEMLSMLGD
QSNTYNNEEFPDLTMFPPFSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	87 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
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 after receiving vials.



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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_001032826
Locus ID:	11863
UniProt ID:	P53762 , Q3ULM2
RefSeq Size:	4370
Cytogenetics:	3 40.74 cM
RefSeq ORF:	2376
Synonyms:	bHLHe2; D3ErtD557e; Drnt; ESTM42; Hif1b; mKIAA4051; W08714
Summary:	Required for activity of the Ah (dioxin) receptor. This protein is required for the ligand-binding subunit to translocate from the cytosol to the nucleus after ligand binding. The complex then initiates transcription of genes involved in the activation of PAH procarcinogens (By similarity). The heterodimer binds to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters and functions as a transcriptional regulator of the adaptive response to hypoxia (PubMed:26245371, PubMed:27782878). The heterodimer ARNT:AHR binds to core DNA sequence 5'-TGCGTG-3' within the dioxin response element (DRE) of target gene promoters and activates their transcription (PubMed:28602820).[UniProtKB/Swiss-Prot Function]