

ARNT Protein, Human, Recombinant (His)

General Information

Synonyms:	Aryl hydrocarbon receptor nuclear translocator;ARNT;Hypoxia-inducible factor 1-beta (HIF-1-beta);HIF1-beta);BHLHE2;ARNT protein;Dioxin receptor, nuclear translocator;Class E basic helix-loop-helix protein 2 (bHLHe2)
Protein Construction:	1-474 aa
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	P27540
Molecular Weight:	54.8 kDa (predicted)
AA Sequence:	MAATTANPEMTSDVPSLGPALASGNSGPGIQGGGAIVQRAIKRRPGLDFDDDGEGNSKFLRCDDDQMSNDKERFARSDDEQSSADKERLARENHSEIERRRRNKMTAYITELSDMVPTCSALARKPDKLTILRMAVSHMKSLRG TGNTSTDGSYKPSFLTDQELKHLILEAADGFLFIVSCETGRVVVYVSDSVTPVLNQPQSEWFGSTLYDQVHPDD VDKLREQLSTSENALTGRILDKTGTVKKEGQSSMRMCMGSRRSFICMRGSSSVDPVSVNRLSFVRNRC RNLGSLVKDGEPHFVVVHCTGYIKAWPPAGVSLPDDDPEAGQGSKFCLVAIGRLQVTSSPNCTDMSNVCQP TEFISRHNIEGIFTVDHRCVATVGYQPQELLGKNIVEFCHPEDQQLLRDSFQVVKLKGQVLSVMFRFRSKN QEWLWMRTSSFTFQNPYSDEIEYIICTNTNVKNSSQEPRPT

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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. 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. 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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