

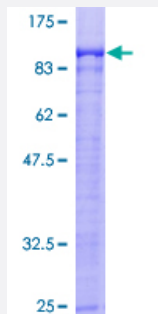
Full-Length

ARNT2 (Human) Recombinant Protein (P01)

Catalog # H00009915-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human ARNT2 full-length ORF (AAH36099, 1 a.a. - 716 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MATPAAVNPPEMASDIPGSVTLVPVAPMAATGQVRMAGAMPARGGKRRSGMDFDDEDEGEGPSK
FSRENHSEIERRRRNKMTQYTELSDMVPTCSALARKPKDLTILRMAVSHMKSMRGTGNKSTDGA
YKPSFLTEQELKHLILEAADGFLFVAAETGRVIYVSDSVTPVLNQPPQSEWFGSTLYEQVHPDDV
EKLREQLCTSENSMTGRILDLKTGTVKKEGQQSSMRMCMGSRRSFICRMRCGNAPLDHLPLNRIT
TMRKRFRNGLGPVKEGEAQYAVVHCTGYKAWPPAGMTIPEEDADVGGQSKYCLVAIGRLQVTS
SPVCMMDMNGMSVPTEFLSRHNSDGIITFVDPRCISVIGYQPQDLLGKDILEFCHPEDQSHLRESFQ
QVVKLKGGVLSVMYRFRTKNREWMLIRTSSFTFQNPYSDEIEYICTNTNVKQLQQQQAELEVHQR
DGLSSYDLSQVPVNPAPAGVHEAGKSVEKADAIFSQERDPRFAEMFAGISASEKKMMSSASAA
GTQQIYSQGSPFPSPGHSGKAFSSSVVHVPGVNDIQSSSSTGQNMSQISRQLNQSQVAWTGSRPP
FPGQQIPSQSSKTQSSPFGIGTSHTYPADPSSYSPLSSPATSSPSGNAYSSLANRTPGFAESGQS
SGQFQGRPSEVWSQWQSQHHGQQSGEQHSHQQPGQTEVFQDMLPMPGDPGNEWWSPHSR
QHFRQPISYARM

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

104.28

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ARNT2

Entrez GeneID	9915
GeneBank Accession#	BC036099
Protein Accession#	AAH36099
Gene Name	ARNT2
Gene Alias	KIAA0307, bHLHe1
Gene Description	aryl-hydrocarbon receptor nuclear translocator 2
Omim ID	606036
Gene Ontology	Hyperlink

Gene Summary	This gene encodes a member of the basic-helix-loop-helix-Per-Arnt-Sim (bHLH-PAS) superfamily of transcription factors. The encoded protein acts as a partner for several sensor proteins of the bHLH-PAS family, forming heterodimers with the sensor proteins that bind regulatory DNA sequences in genes responsive to developmental and environmental stimuli. Under hypoxic conditions, the encoded protein complexes with hypoxia-inducible factor 1alpha in the nucleus and this complex binds to hypoxia-responsive elements in enhancers and promoters of oxygen-responsive genes. A highly similar protein in mouse forms functional complexes with both aryl hydrocarbon receptors and Single-minded proteins, suggesting additional roles for the encoded protein in the metabolism of xenobiotic compounds and the regulation of neurogenesis, respectively. [provided by RefSeq]
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Other Designations

aryl hydrocarbon receptor nuclear translocator 2

Pathway

- [Pathways in cancer](#)
- [Renal cell carcinoma](#)

Disease

- [Asperger Syndrome](#)
- [Autistic Disorder](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Social Perception](#)