

Recombinant Human ARNT protein, GST-tagged

Cat. No. ARNT-288H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ARNT fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	The transcription factor Aryl hydrocarbon receptor nuclear translocator (ARNT), alternatively named Hypoxia-inducible factor (HIF)-1 β , is part of the Hypoxia-inducible factor (HIF) pathway which mediates cellular adaptations to hypoxia and promotes tumour progression. Unlike HIF-1 α that is regulated in an oxygen-dependent manner, HIF-1 β is constitutively expressed. It has been shown that some tumour cells are capable to elevate HIF-1 β in response to hypoxia to for a clonal advantage. HIF-1 β binds HIF-1 α , and forms the transcriptional active HIF-1 complex in the nucleus.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	120 kDa
Purity	> 70%
Applications	Western Blot
Stability	1 year at -70 centigrade from the date of shipment.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	ARNT aryl hydrocarbon receptor nuclear translocator [Homo sapiens]
Official Symbol	ARNT
Synonyms	ARNT; aryl hydrocarbon receptor nuclear translocator; bHLHe2; HIF 1beta; dioxin receptor, nuclear translocator; class E basic helix-loop-helix protein 2; hypoxia-inducible factor 1, beta subunit; HIF1B; TANGO; HIF1BETA; HIF-1beta; HIF1-beta; HIF-1-beta;
Gene ID	405
mRNA Refseq	NM_001668
Protein Refseq	NP_001659
MIM	126110
UniProt ID	P27540
Chromosome Location	1q21
Pathway	Angiogenesis, organism-specific biosystem; HIF-1-alpha transcription factor network,

organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem; Hypoxic and oxygen homeostasis regulation of HIF-1-alpha, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Renal cell carcinoma, organism-specific biosystem;

Function

aryl hydrocarbon receptor activity; aryl hydrocarbon receptor binding; protein binding; protein heterodimerization activity; contributes_to sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; contributes_to sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; signal transducer activity; transcription coactivator activity; transcription factor binding;

