



Recombinant Human Aryl hydrocarbon receptor nuclear translocator (ARNT)

Product Code	CSB-EP002121HU
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P27540
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MAATTANPEMTSDVPSLGPASGNSGPGIQGGGAIVQRAIKRRPGLDFDDDG EGNSKFLRCDDDQMSNDKERFARSDDEQSSADKERLARENHSEIERRRRNK MTAYITELSDMVPTCSALARKPKDLTILRMAVSHMKSLRGTGNTSTDGSYKPS FLTDQELKHLILEAADGFLFIVSCETGRVVYVSDSVTPVLNQPQSEWFGSTLYD QVHPDDVDKLRQLSTSENALTGRILDKTGTVKKEGQQSSMRMCMGSRRSF ICRMRCGSSSDPVSVNRLSFVRNRCRNLGSLVDGEPHFVVHCTGYIKAW PPAGVSLPDDDPEAGQGSKFCLVAIGRLQVTSSPNCIDMSNVCQPTEFISRH NIEGIFTFVDHRCVATVGYQPQELLGKNIVEFCHPEDQQLLRDSFQQVVKLKG QVLSVMFRFRSKNQEWLWMRTSSFTFQNPYSDEIEYIICTNTNVKNSSQEPRP T
Source	E.coli
Target Names	ARNT
Protein Names	Recommended name: Aryl hydrocarbon receptor nuclear translocator Short name= ARNT protein Alternative name(s): Class E basic helix-loop-helix protein 2 Short name= bHLHe2 Dioxin receptor, nuclear translocator Hypoxia-inducibl
Expression Region	1-474aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Partial
Target Details	The aryl hydrocarbon (Ah) receptor is involved in the induction of several enzymes that participate in xenobiotic metabolism. The ligand-free, cytosolic form of the Ah receptor is complexed to heat shock protein 90. Binding of ligand, which includes dioxin and polycyclic aromatic hydrocarbons, results in translocation of the ligand-binding subunit only to the nucleus. Induction of enzymes involved in xenobiotic metabolism occurs through binding of the ligand-bound Ah receptor to xenobiotic responsive elements in the promoters of genes for these enzymes. This gene encodes a protein that forms a complex with the ligand-bound Ah receptor, and is required for receptor function. The



encoded protein has also been identified as the beta subunit of a heterodimeric transcription factor, hypoxia-inducible factor 1 (HIF1). A t(1;12)(q21;p13) translocation, which results in a TEL-ARNT fusion protein, is associated with acute myeloblastic leukemia. Three alternatively spliced variants encoding different isoforms have been described for this gene.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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