

Recombinant Human AIP, His-tagged

Cat. No. AIP-4960H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AIP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-330aa
Description	The protein encoded by this gene is a receptor for aryl hydrocarbons and a ligand-activated transcription factor. The encoded protein is found in the cytoplasm as part of a multiprotein complex, but upon binding of ligand is transported to the nucleus. This protein can regulate the expression of many xenobiotic metabolizing enzymes. Also, the encoded protein can bind specifically to and inhibit the activity of hepatitis B virus.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol
Molecular Mass	39.8 kDa (350aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH PVWETIVCTM REGEIAQFLC DIKHVVLYPL VAKSLRNIAV GKDPLEGQRH CCGVAQMREH SSLGHADLDA LQQNPQPLIF HMEMLKVESP GTYQQDPWAM TDEEKAKAVP LIHQEGNRLY REGHVKEAAA KYYDAIACKL NLQMKEQPGS PEWIQLDKQI TPLLLNYCQC KLVVEEYYEV MADIARLRE DGIQKRVIQE GRGELPDFQD GTKATFHYRT LHSDDDEGTVL DDSRARGKPM ELIIGKKFKL LDHCSSILNK YDDNVKAYFK RGKAHAAVWN

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AQEAQADFAK VLELDPALAP VVSRELRALR ARIRQKDEED KARFRGIFSH

Purity > 90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [AIP aryl hydrocarbon receptor interacting protein \[Homo sapiens \]](#)

Official Symbol AIP

Synonyms

AIP; ARA9; XAP2; FKBP16; FKBP37; SMTPHN; aryl hydrocarbon receptor interacting protein; XAP-2; AH receptor-interacting protein; OTTHUMP00000236411; OTTHUMP00000236412; HBV-X associated protein; immunophilin homolog ARA9; HBV X-associated protein 2; aryl hydrocarbon receptor-interacting protein; aryl-hydrocarbon receptor interacting protein; aryl-hydrocarbon receptor-interacting protein; Aryl-hydrocarbon receptor-interacting protein; Immunophilin homolog ARA9

Gene ID [9049](#)

mRNA Refseq [NM_003977](#)

Protein Refseq [NP_003968](#)

MIM [605555](#)

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UniProt ID	O00170
Chromosome Location	11q13.3
Pathway	AhR pathway
Function	protein binding; signal transducer activity; transcription coactivator activity; transcription factor binding; unfolded protein binding

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