Recombinant Human TIRAP, His-tagged

Cat. No. TIRAP-116H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TIRAP 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	1-221 a.a.
Description	The innate immune system recognizes microbial pathogens through Toll-like receptors (TLRs), which identify pathogen-associated molecular patterns. Different TLRs recognize different pathogen-associated molecular patterns and all TLRs have a Toll-interleukin 1 receptor (TIR) domain, which is responsible for signal transduction. The protein encoded by this gene is a TIR adaptor protein involved in the TLR4 signaling pathway of the immune system. It activates NF-kappa-B, MAPK1, MAPK3 and JNK, which then results in cytokine secretion and the inflammatory response. Alternative splicing of this gene results in several transcript variants; however, not all variants have been fully described.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol,2mM DTT
Molecular Mass	26.3 kDa (244aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSSLPPTHASDS GSSRWSKDYD

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	VCVCHSEEDL VAAQDLVSYL EGSTASLRCF LQLRDATPGG AIVSELCQAL SSSHCRVLLI TPGFLQDPWC MASSTSL PAPGSRPKKP LGKMADWFRQ TLLKKPKKRP NSPESTSSDA SQPTSQDSPL PPSLSSVTSP KYQMLQALTE APGAEGCTIP LLSGLSRAAY PPELRFMYYV DGRGPDGGFR QVKEAVMRYL QTLS
Purity	> 90% by 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	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	TIRAP toll-interleukin 1 receptor (TIR) domain containing adaptor protein [Homo sapiens (human)]
Official Symbol	TIRAP
Synonyms	TIRAP; Mal; wyatt; BACTS1; MyD88-2; toll-interleukin 1 receptor (TIR) domain containing adaptor protein; toll/interleukin-1 receptor domain-containing adapter protein; adapter protein wyatt; adaptor protein Wyatt; MyD88 adapter-like protein; Toll-like receptor adaptor protein
Gene ID	114609
mRNA Refseq	NM_001039661
Protein Refseq	NP_001034750
MIM	606252

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UniProt ID	P58753
Chromosome Location	11q24.2
Pathway	AGE/RAGE pathway; Hepatitis B; MyD88:Mal cascade initiated on plasma membrane
Function	Toll-like receptor 2 binding; phosphatidylinositol-4,5-bisphosphate binding; protein binding, bridging

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