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# **Recombinant human TIRAP protein**

Catalog Number: ATGP1675

#### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

1-221aa

#### **UniProt No.**

P58753

#### **NCBI Accession No.**

NP 001034750

#### **Alternative Names**

toll-interleukin1 receptor (TIR) domain containing adaptor protein, BACTS1, Mal, wyatt

#### PRODUCT SPECIFICATION

### **Molecular Weight**

26.3 kDa (244aa) confirmed by MALDI-TOF

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol,2mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

TIRAP (toll-interleukin1 receptor (TIR) domain containing adaptor protein) contains 1 TIR domain. This protein is an adapter molecule associated with toll-like receptors. The innate immune system recognizes microbial pathogens through Toll-like receptors (TLRs), which identify pathogen-associated molecular patterns. Adapter protein, TIRAP, is involved in TLR2 and TLR4 signaling pathways in the innate immune response. Recombinant human TIRAP protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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# **Amino acid Sequence**

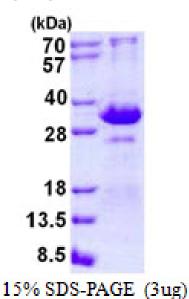
MGSSHHHHHH SSGLVPRGSH MGSMASSTSL PAPGSRPKKP LGKMADWFRQ TLLKKPKKRP NSPESTSSDA SQPTSQDSPL PPSLSSVTSP SLPPTHASDS GSSRWSKDYD VCVCHSEEDL VAAQDLVSYL EGSTASLRCF LQLRDATPGG AIVSELCQAL SSSHCRVLLI TPGFLQDPWC KYQMLQALTE APGAEGCTIP LLSGLSRAAY PPELRFMYYV DGRGPDGGFR QVKEAVMRYL QTLS

#### **General References**

Semaan N., et al. (2008) J. Immunol. 180:3485-3491 Nagpal K., et al. (2009) J. Biol. Chem. 284:25742-25748

## **DATA**

## **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

