
Product Data Sheet

Product Name: TIRAP Human
 Cat. No.: GP24842
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Toll-interleukin 1 receptor (TIR) domain containing adaptor protein; adapter protein wyatt; BACTS1; Mal; wyatt; Toll-like receptor adaptor protein; TIR domain-containing adapter protein; MyD88 adapter-like protein.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMASSTSL PAPGSRPKKP LGKMADWFRQ TLLKKPKKRP NSPESTSSDA SQPTSQDSPL PPSLSSVTSP SLPPTHASDS GSSRWSKDYD VCVCHSEEDL VAAQDLVSYL EGSTASLRFC LQLRDATPGG AIVSELCQAL SSSHCRVLLI TPGFLQDPWC KYQMLQALTE APGAEGCTIP LLSGLSRAAY PPELRFMYV DGRGPDGGFR QVKEAVMRYL QTLS		
Formulation	The TIRAP solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 20% glycerol.		

Introduction

Toll-interleukin1 receptor (TIR) domain containing adaptor protein (TIRAP) contains 1 TIR domain. TIRAP is an adapter molecule linked with toll-like receptors. TIRAP is required in TLR2 and TLR4 signaling pathways in the innate immune response. TIRAP activates NF-kappa-B, MAPK1, MAPK3 and JNK, which subsequently results in cytokine secretion and the inflammatory response. TIRAP is highly expressed in the liver, kidney, spleen, skeletal muscle and heart. TIRAP is also found in peripheral blood leukocytes, lung, placenta, small intestine, thymus, colon and brain.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

TIRAP Human Recombinant produced in E. coli is a single polypeptide chain containing 244 amino acids (1-221) and having a molecular mass of 26.3 kDa. TIRAP is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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