

Active Full Length Recombinant Monkey IRAK4 Protein, His-tagged

Cat. No. IRAK4-11114M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus IRAK4 Protein, His Tag is expressed from Baculovirus-Insect cells. It contains AA Met 1 - Ser 460 (Accession # A0A2K5V3Y9). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: Met
Species	Monkey
Source	InsectCells
ProteinLength	1-460 aa
Description	This gene encodes a kinase that activates NF-kappaB in both the Toll-like receptor (TLR) and T-cell receptor (TCR) signaling pathways. The protein is essential for most innate immune responses. Mutations in this gene result in IRAK4 deficiency and recurrent invasive pneumococcal disease. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	Supplied as 0.2 µm filtered solution in 50 mM HEPES, 300 mM NaCl, pH7.5 with glycerol as protectant.
Bio-activity	The IRAK4 assay is performed using the ADP-Glo™ Kinase Assay kit which quantifies the amount of ADP produced by the IRAK4 reaction. The ADP- Glo™ Reagent is added to terminate the kinase reaction and to deplete the remaining ATP, and then the Kinase Detection Reagent is added to convert ADP to ATP and to measure the newly synthesized ATP using luciferase/luciferin reaction. The specific

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	activity is >10 pmol/min/μg.
Molecular Mass	The protein has a calculated MW of 53.6 kDa. The protein migrates as 55-60 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. This product is stable after storage at: The product MUST be stored at -70 centigrade or lower upon receipt; -70 centigrade for 3 months under sterile conditions.
Concentration	0.2 mg/mL
Shipping	This product is supplied and shipped with dry ice, please inquire the shipping cost.

GENE INFORMATION

Gene Name	IRAK4 interleukin 1 receptor associated kinase 4 [Macaca fascicularis (crab-eating macaque)]
Official Symbol	IRAK4
Synonyms	IRAK4; interleukin 1 receptor associated kinase 4; interleukin-1 receptor-associated kinase 4
Gene ID	102140231
mRNA Refseq	XM_005570616

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Protein Refseq	XP_005570673
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UniProt ID	A0A2K5V3Y9
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