

Active Full Length Recombinant Canine IRAK4 Protein, His-tagged

Cat. No. IRAK4-11115D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Canine IRAK4 Protein, His Tag is expressed from Baculovirus-Insect cells. It contains AA Met 1 - Ser 460 (Accession # A0A8I3S726-1). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: Met 1
Species	Canine
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 Tris, 150 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	activity is >11 pmol/min/μg.
Molecular Mass	The protein has a calculated MW of 53.4 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	>95% as determined by SDS-PAGE.
Storage	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. Please avoid repeated freeze-thaw cycles.
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 [Canis lupus familiaris]
Official Symbol	IRAK4
Synonyms	IRAK4; interleukin-1 receptor-associated kinase 4;
Gene ID	486601
UniProt ID	A0A8I3S726

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA