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# Datasheet for ABIN7196626 **IRAK4 Protein (His tag)**

Image



#### Overview

Quantity:	50 µg
Target:	IRAK4
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IRAK4 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human IRAK4/IRAK-4 Protein (His Tag)(Active)
Sequence:	Met 1-Ser 460
Characteristics:	A DNA sequence encoding the full length of human IRAK4 (Q9NWZ3-1) (Met 1-Ser 460) was expressed with a polyhistidine tag at the N-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per $\mu$ g as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 169 nmol/min/mg using MBP as substrate.

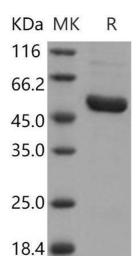
### Target Details

Target:	IRAK4
Alternative Name:	IRAK4/IRAK-4 (IRAK4 Products)

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Target Details	
Background:	Background: Interleukin-1 receptor-associated kinase 4, also known as Renal carcinoma antigen NY-REN-64, IRAK-4 and IRAK4, is a member of the protein kinase superfamily, TKL Ser/Thr protein kinase family and Pelle subfamily. IRAK4 contains one death domain and one protein kinase domain. IRAK4 is required for the efficient recruitment of IRAK1 to the IL-1 receptor complex following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization. It also phosphorylates IRAK1. A member of the IL-1 receptor (IL-1R)-associated kinase (IRAK) family, IRAK4, has been shown to play an essential role in Toll-like receptor (TLR)-mediated signaling. IL-1-mediated IRAK4 kinase activity in T cells is essential for induction of IL-23R expression, Th17 differentiation, and autoimmune disease. Pharmacological blocking of IRAK4 kinase activity will retain some levels of host defence, while reducing the levels and duration of inflammatory responses, which should provide beneficial therapies for sepsis and chronic inflammatory diseases. Defects in IRAK4 are the cause of recurrent isolated invasive pneumococcal disease type 1 (IPD1) which is defined as two episodes of IPD occurring at least 1 month apart, whether caused by the same or different serotypes or strains. Recurrent IPD occurs in at least 2% of patients in most series, making IPD the most important known risk factor for subsequent IPD. Defects in IRAK4 are also the cause of IRAK4 deficiency which causes extracellular pyogenic bacterial and fungal infections in otherwise healthy children. Synonym: IPD1;IRAK-4;NY-REN-64;REN64
Molecular Weight:	53.8 kDa
Pathways:	NF-kappaB Signaling, TLR Signaling, Activation of Innate immune Response, Toll-Like Receptors Cascades
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Frozen, Liquid
Buffer:	Supplied as sterile 20 mM Tris, 500 mM NaCl, 0.5 mM PMSF, pH 7.4
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

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Image 1.

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