

# Recombinant Human Interleukin-1 Receptor-Associated Kinase 4, His-tagged

**Cat. No.** IRAK4-5437H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human full length IRAK4, His-tagged. No special measures were taken to activate this kinase.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	IRAK4 is an important mediator in the signal transduction of Toll-like receptor (TLR) and IL1R family members. IRAK4 is involved in the Toll-like receptor signaling pathway leading to Apoptosis. IRAK4 has molecular functions like protein binding, ATP binding, kinase activity and magnesium ion binding. Toll/IL-1 receptor family members like IRAK4 are central components of host defense mechanisms in a variety of species. One well conserved element in their signal transduction is the Ser/Thr kinase activity which couples early signaling events in a receptor complex at the plasma membrane to larger signalosomes in the cytosol.
<b>Form</b>	Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.05% Triton X-100 + 2 mM DTT + 50% glycerol.
<b>Molecular Weight</b>	55.6 kDa
<b>Storage</b>	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
<b>Official Symbol</b>	IRAK4

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**Full Length**

Full L.

## GENE INFORMATION

**Gene Name**

IRAK4 interleukin-1receptor-associated kinase 4 [ Homo sapiens ]

**Synonyms**

IRAK4; interleukin-1receptor-associated kinase 4; IPD1; REN64; NY-REN-64; EC 2.7.11.1; IRAK-4;NY-REN-64 antigen

**Gene ID**

51135

**mRNA Refseq**

NM\_001114182

**Protein Refseq**

NP\_001107654

**MIM**

606883

**UniProt ID**

Q9NWZ3

**Chromosome Location**

12q12

**Pathway**

Activated TLR4 signalling; Apoptosis;Cytokine Signaling in Immune system; IL-1 Signaling Pathway; IL1-mediatedsignaling events; Immune System; Innate Immune System; Interleukin-1signaling; Leishmaniasis; Measles; MyD88 cascade initiated on plasmamembrane; Neurotrophin signaling pathway; Signaling by Interleukins; TRAF6mediated IRF7 activation in TLR7/8 or 9 signaling

**Function**

ATP binding; interleukin-1receptor binding; magnesium ion binding; nucleotide binding; protein binding;protein serine/threonine kinase activity; transferase activity

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