

## Recombinant Human IRAK4

Cat. No. IRAK4-27000TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Full length Human IRAK4 with N-terminal proprietary tag, expressed in a Baculovirus infected Sf9 cell expression system, 77.5 kDa.
<b>Species</b>	Human
<b>Description</b>	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.
<b>Biological activity</b>	Specific Activity: 18 pmol/min/μg.
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 10% Glycerol, 400mM Sodium chloride, 3mM DTT, 25mM Tris HCl, pH 8.0
<b>Storage</b>	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily. Contains 1 death domain. Contains 1 protein kinase domain.

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Full Length Full L.

## GENE INFORMATION

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

**Official Symbol** IRAK4

**Synonyms** IRAK4; interleukin-1 receptor-associated kinase 4; NY REN 64;

**Gene ID** 51135

**mRNA Refseq** NM\_001114182

**Protein Refseq** NP\_001107654


**MIM** 606883

**Uniprot ID** Q9NWZ3

**Chromosome Location** 12q12

**Pathway** Activated TLR4 signalling, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem;

**Function** ATP binding; interleukin-1 receptor binding; magnesium ion binding; nucleotide binding; protein binding;

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