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

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

SPECIFICATION

Product Overview	Recombinant humanfull length IRAK4, His-tagged. No special measures were taken to activatethis kinase.
Species	Human
Source	Insect Cells
Description	IRAK4 is an important mediatorin the signal transduction of Toll-like receptor (TLR) and IL1R familymembers. IRAK4 is involved in the Toll-like receptor signaling pathwayleading to Apoptosis. IRAK4 has molecular functions like protein binding, ATPbinding, kinase activity and magnesium ion binding. Toll/IL-1 receptor familymembers like IRAK4 are central components of host defense mechanisms in avariety of species. One well conserved element in their signal transductionis the Ser/Thr kinase activity which couple early signaling events in areceptor complex at the plasma membrane to larger signalosomes in thecytosol.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.05% Triton X-100 + 2 mM DTT +50% glycerol.
MolecularWeight	55.6 kDa
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	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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