

Recombinant Human Interleukin-1 Receptor-Associated Kinase 1, GST-tagged

Cat. No. IRAK1-5436H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IRAK1 catalytic domain (amino acids 194-712), GST-tagged. No special measures were taken to activate this kinase.
Species	Human
Source	Insect Cells
Protein Length	194-712 a.a.
Description	Nuclear factor kappa B (NF-κB) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF-κB mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNFα and LPS. A serine/threonine protein kinase associated with IL-1 receptor (IRAK) and its homologue mouse Pelle-like protein kinase (mPLK) were identified recently. IRAK is associated with the IL-1 receptor subunits IL-1RI and IL-1RAcP after IL-1 binding and serves as a signaling molecule to mediate IL-1 response.
Form	Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT + 50% glycerol.
Purity	≥ 95% as determined by SDS-PAGE analysis
Molecular Weight	83.4 kDa

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Biological Activity	255 nmoleof phosphate transferred to myelin basic protein (MBP) per minute per mg of totalprotein at 30°C. Activity determined at a final protein concentration of 3.33µg/ml.
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	IRAK1
GENE INFORMATION	
Gene Name	IRAK1 interleukin-1receptor-associated kinase 1 [Homo sapiens]
Synonyms	IRAK1; interleukin-1receptor-associated kinase 1; IRAK; pelle; EC 2.7.11.1; interleukin-1receptor-associated kinase 1; Pelle homolog
Gene ID	3654
mRNA Refseq	NM_001025242
Protein Refseq	NP_001020413
MIM	300283
UniProt ID	P51617
Chromosome Location	Xq28
Pathway	Apoptosis; Neurotrophinsignaling pathway; Toll-like receptor signaling pathway; Signaling in Immunesystem; Signalling by NGF

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Function

ATP binding; NF-kappaB-inducingkinase activity; interleukin-1 receptor binding; nucleotide binding; proteinhomodimerization activity; protein serine/threonine kinase activity;transcription activator activity; transferase activity

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