

## Recombinant Human IRAK3, GST-tagged

**Cat. No.** IRAK3-7003H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human IRAK3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full length
<b>Description</b>	IRAK3 or interleukin-1 receptor-associated kinase 3 is a member of the interleukin-1 receptor-associated kinase protein family which is essential components of the Toll/IL-R immune signal transduction pathways. IRAK3 is primarily expressed in monocytes and macrophages and functions as a negative regulator of Toll-like receptor signaling. IRAKM mediates critical aspects of innate immunity that result in an immunocompromised state during sepsis. Mutations in IRAK3 are associated with a susceptibility to asthma.
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Molecular Mass</b>	~96 kDa
<b>Purity</b>	>80%
<b>Applications</b>	Western Blot

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<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 $\mu\text{g}/\mu\text{l}$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	IRAK3 interleukin-1 receptor-associated kinase 3 [ Homo sapiens ]
<b>Official Symbol</b>	IRAK3
<b>Synonyms</b>	IRAK3; interleukin-1 receptor-associated kinase 3; IRAK M; IL-1 receptor-associated kinase M; ASRT5; IRAKM; FLJ13601;
<b>Gene ID</b>	11213
<b>mRNA Refseq</b>	NM_001142523
<b>Protein Refseq</b>	NP_001135995
<b>MIM</b>	604459
<b>UniProt ID</b>	Q9Y616
<b>Chromosome Location</b>	12q13.13
<b>Pathway</b>	Activated TLR4 signalling, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; IL1-mediated signaling events, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System,

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organism-specific biosystem;

**Function**

ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein heterodimerization activity; protein homodimerization activity; protein serine/threonine kinase activity;

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