

## IRAK3 Protein, Mouse, Recombinant (His & Myc)

### General Information

Synonyms:	IL-1 receptor-associated kinase M (IRAK-M);Inactive IL-1 receptor-associated kinase 3;IRAK-3; Interleukin-1 receptor-associated kinase 3;Irak3
Protein Construction:	1-609 aa
Species:	Mouse
Expression Host:	Baculovirus Insect Cells
Accession:	Q8K4B2
Molecular Weight:	72.3 kDa (predicted)
AA Sequence:	MAGRCGARGALSPQLLLFDLPPALLGELCGILDSCDGPLGWRGLAERLSNSWLDVRHIEKYVNVQKSGTRELL WSWAQKNKTIGDLLLEVLQDMGHQRAIHLIINYGVSWTPSVQTHHELPFSPFPPEVKHACRENDPGPLEPANV TVDNVLVPEHNEKGTLPISFQSILEGTKHFHKDFLIGEGEIFEVYRVDIRNQAYAVKLFKQEKMKQLKKHW KRFLSELEVLLFRHPHILELAAYFTETEKLCVYPYMSNGTLFDRQLQCTNGTTPLSWHVRISVLIGIAKAIQYLH NTQPCAVICGNVSSANILLDDQLQPKLTDFAAAHFPRNLEQQSSTINMTGGGRKHLWYMPPEYIRQGRLSVK TDVYSFGIVIMEVLTGCKVVLDDPKHVQLRDLLMELMEKRGLDSCLSFLDRKIPPCPRNFSAKLFSLAGRCVAT KAKLRPTMDEVLSLESTQPSLYFAEDPPTSLKSFRCPSPLFLDNVPSIPVEDDENQNNHNSVPPKEVLGTDRVT QKTPFECSEQSEVTFLLGLDRNRGNRGSEADCNVPSSSHEECWSPPELVAPSQDLSPVISLGSWEVPGHSYGS KPMEKRCSSGLFCSEHEQSKKQ

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

Putative inactive protein kinase which regulates signaling downstream of immune receptors including IL1R and Toll-like receptors. Inhibits dissociation of IRAK1 and IRAK4 from the Toll-like receptor signaling complex by either inhibiting the phosphorylation of IRAK1 and IRAK4 or stabilizing the receptor complex. Upon IL33-induced lung inflammation, positively regulates expression of IL6, CSF3, CXCL2 and CCL5 mRNAs in dendritic cells.

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