

## IRAK3 Protein, Mouse, Recombinant (E. coli, His &amp; Myc)

## General Information

Synonyms:	Irak3;Interleukin-1 receptor-associated kinase 3;IRAK-3;Inactive IL-1 receptor-associated kinase 3;IL-1 receptor-associated kinase M (IRAK-M)
Protein Construction:	1-609 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q8K4B2
Molecular Weight:	73.5 kDa (predicted)
AA Sequence:	MAGRCGARGALSPQLLLFDLPPALLGELCGILDSCDGPLGWRGLAERLSNSWLDVRHIEKYVNQKSGTREL WSWAQKNKTIGDLLLEVLQDMGHQRAIHLIINYGVSWTPSVQTHHELPFSPPEVKHACRENDPGPLEPANV TVDNVLVPEHNEKGTLPISFQSILEGTKHFHKDFLIGEGEIFEVYRVDIRNQAYAVKLFKQEKMQLKHHW KRFLSELEVLLFRHPHILELAAYFTETEKLCVYPYMSNGTLFDRLQCTNGTTPLSWHVRISVLIGIAKAIQYLH NTQPCAVICGNVSSANILLDDQLQPKLTDFAAAHFPRNLEQQSSTINMTGGGRKHLWYMPPEYIRQGRLSVK TDVYSFGIVIMEVLTGCKVVLDDPKHVQLRDLLELMELMEKRGDLSCLSLDRKIPPCPRNFSKLFSLAGRCVAT KAKLRPTMDEVLSLESTQPSLYFAEDPPTSLKSFRCPSPLFLDNVPSIPVEDDENQNNHNSVPPKEVLGTDRVT QKTPFECSEQSEVTFLLGLDRNRGNRGSEADCNVPSSSHEECWSPPELVAPSQDLSPTVISLGSWEVPGHSYGS KPMKRCSSGLFCSEHEQSKKQ

## 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:	> 90% 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:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; 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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