

Datasheet for ABIN7559567

## IRAK3 Protein (AA 1-609) (His tag)



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### Overview

Quantity:	1 mg
Target:	IRAK3
Protein Characteristics:	AA 1-609
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IRAK3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat Irak3 Protein expressed in mammalian cells.
Sequence:	<p>MAGRCGARGA LSPQLLLFDL PPALLGELCG ILDSCDGPLG WRGLAERLSN SWLDVRHIEK</p> <p>YVNQKGSGTR ELLWSWAQKN KTIGDLLEVL QDMGHQRAIH LIINYGVSWT PSVQTHHELP</p> <p>FPSFPPEVKH ACRENDPGPL EPANVTVDNV LVPEHNEKGT LQKTPISFQS ILEGTKHFHK</p> <p>DFLIGEGEIF EVYRVDIRNQ AYAVKLFKQE KKMQLKKHWK RFLSELEVLL LFRHPHILEL</p> <p>AAYFTETEK LCLVYPYMSNG TLFDRQLQCTN GTTPLSWHVR ISVLIGIAKA IQYLHNTQPC</p> <p>AVICGNVSSA NILLDDQLQP KLTDFAAAHF RPNLEQQSST INMTGGGRKH LWYMPPEYIR</p> <p>QGRLSVKTDV YSFGIVIMEV LTGCKVVLDD PKHVQLRDLL MELMEKRGLD SCLSFLDRKI</p> <p>PPCPNFSAK LFSLAGRCVA TKAKLRPTMD EVLSSLESTQ PSLYFAEDPP TSLKSFRCP</p> <p>PLFLDNVPSI PVEDDENQNN HSVPPKEVLG TDRVTQKTPF ECSQSEVTF LGLDRNRGNRG</p> <p>SEADCNVPSS SHEECWSP ELVAPSQDLSP TVISLGSSWEV PGHSYGSKPM EKRCSSGLFC</p> <p>SEHEQSKKQ <b>Sequence without tag. The proposed Purification-Tag is based on experiences</b></p>

**with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

### Grade:

custom-made

## Target Details

### Target:

IRAK3

### Alternative Name:

Irak3 ([IRAK3 Products](#))

### Background:

Interleukin-1 receptor-associated kinase 3 (IRAK-3) (IL-1 receptor-associated kinase M) (IRAK-M) (Inactive IL-1 receptor-associated kinase 3),FUNCTION: Putative inactive protein kinase which regulates signaling downstream of immune receptors including IL1R and Toll-like receptors (PubMed:12150927, PubMed:12054681, PubMed:29686383). 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 (PubMed:12150927, PubMed:12054681). Upon IL33-induced lung inflammation, positively regulates expression of IL6, CSF3, CXCL2 and CCL5 mRNAs in dendritic cells (PubMed:29686383). {ECO:0000269|PubMed:12054681, ECO:0000269|PubMed:12150927, ECO:0000269|PubMed:29686383}.

### Molecular Weight:

68.5 kDa

## Target Details

UniProt:	<a href="#">Q8K4B2</a>
Pathways:	<a href="#">TLR Signaling</a> , <a href="#">Activation of Innate immune Response</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Toll-Like Receptors Cascades</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months