

**Synonym**

IMD67, IPD1, IRAK-4, NY-REN-64, REN64

SourceMouse IRAK4 Protein, His Tag(IR4-M5544) is expressed from Baculovirus-Insect cells. It contains AA Met 1 - Ala 459 (Accession # [Q8R4K2-1](#)).

Predicted N-terminus: His

Molecular Characterization

Poly-his

IRAK4(Met 1 - Ala 459)
Q8R4K2-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 52.9 kDa.

EndotoxinLess than 1.0 EU per μ g by the LAL method / rFC method.**Formulation**Supplied as 0.2 μ m filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping*This product is supplied and shipped with dry ice, please inquire the shipping cost.***Storage***Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

Bioactivity

The IRAK4 assay is performed using the ADP-Glo™ Kinase Assay kit which quantifies the amount of ADP produced by the IRAK4 reaction. The ADP-Glo™ Reagent is added to terminate the kinase reaction and to deplete the remaining ATP, and then the Kinase Detection Reagent is added to convert ADP to ATP and to measure the newly synthesized ATP using luciferase/luciferin reaction. The specific activity is >1 pmol/min/ μ g (QC tested).

Background

This gene encodes a kinase that activates NF- κ B in both the Toll-like receptor (TLR) and T-cell receptor (TCR) signaling pathways. The protein is essential for most innate immune responses. Mutations in this gene result in IRAK4 deficiency and recurrent invasive pneumococcal disease. Multiple transcript variants encoding different isoforms have been found for this gene.

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