

Human IRAK4 Protein, His Tag (active enzyme)

Catalog # IR4-H5543



BIOSYSTEMS
Acro

Synonyms

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

Source

Human IRAK4 Protein, His Tag (IR4-H5543) is expressed from Baculovirus-Insect cells. It contains AA Glu 154 - Ser 460 (Accession # [Q9NWZ3-1](#)).

Predicted N-terminus: Met

Molecular Characterization

Poly-his	IRAK4(Glu 154 - Ser 460) Q9NWZ3-1
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This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 36.4 kDa. The protein migrates as 38-40 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm filtered solution in 50 mM HEPES, 300 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping and Storage

This product is supplied and shipped on dry ice.

Please avoid repeated freeze-thaw cycles.

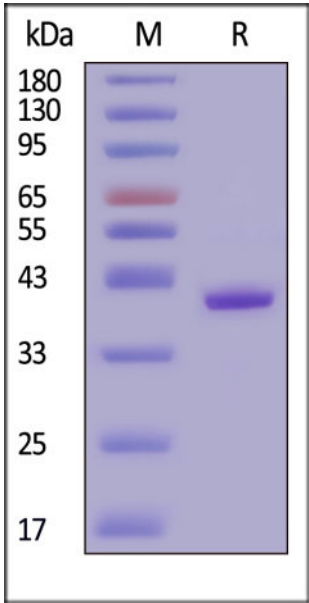
This product is stable after storage at:

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

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Human IRAK4 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

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 >20 pmol/min/μg (QC tested).

Background

This gene encodes a kinase that activates NF-kappaB 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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