

Catalog No.: RP03444LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	51135	O9NWZ3

N-His

IRAK4; IRAK-4; Renal carcinoma antigen
NY-REN-64; Interleukin-1 receptor-
associated kinase 4

Source	Purification
Baculovirus-Insect Cells	≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Calculated MW	Observed MW
36.5 kDa	30-40 kDa

< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 µm filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 1 mM DTT, 5% glycerol. (pH 7.5). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

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IRAK-4 (interleukin-1 receptor-associated kinase 4), in the IRAK family, is a protein kinase involved in signaling innate immune responses from Toll-like receptors. It also supports signaling from T-cell receptors. IRAK4 contains domain structures which are similar to those of IRAK1, IRAK2, IRAK3 and Pelle. IRAK4 is unique compared to IRAK1, IRAK2 and IRAKM in that it functions upstream of the other IRAKs, but is more similar to Pelle in this trait. IRAK4 has important clinical applications.

Recombinant Human IRAK4 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Glu154-Ser460) of Human IRAK4 (Accession #O9NWZ3) fused with a N-His tag.

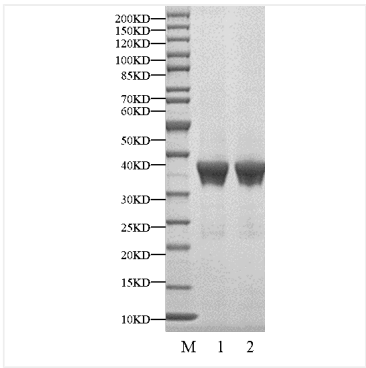
The activity of IRAK4 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

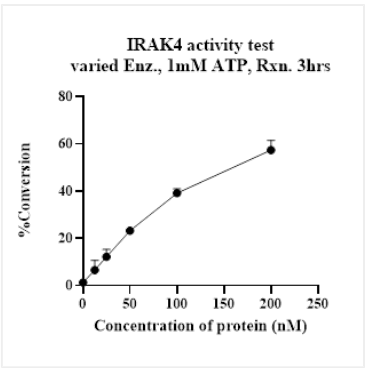
Aliquots below 10 μ L are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Validation Data



Recombinant Human IRAK4 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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