

Catalog No.: RP03423LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	9641	O14164

Synonyms

Product Information

Source	Purification
Baculovirus-Insect Cells	≥ 85% as determined by SDS-PAGE; ≥ 85% as determined by HPLC

Calculated MW	Observed MW
106.9 kDa	85-110 kDa

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

Formulation

Supplied as a 0.22 μ m filtered solution in 50 mM Tris-HCl, 500 mM NaCl, 20% glycerol, 5 mM DTT, 0.1 M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

Contact

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Inhibitor of nuclear factor kappa-B kinase subunit epsilon also known as I-kappa-B kinase epsilon or IKK-epsilon is an enzyme that in humans is encoded by the IKBKE gene. It plays an essential role in regulating inflammatory responses to viral infection, through the activation of the type I IFN, NF-kappa-B and STAT signaling. Also involved in TNFA and inflammatory cytokines, like Interleukin-1, signaling. Inhibition of IκB kinase (IKK) and IKK-related kinases, IKBKE (IKKε) and TANK-binding kinase 1 (TBK1), has been investigated as a therapeutic option for the treatment of inflammatory diseases and cancer.

Basic Information

Description

Recombinant Human IKK epsilon/IKBKE Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Gln2-Val716) of Human IKBKE (Accession #Q14164) fused with a N-GST tag.

Bio-Activity

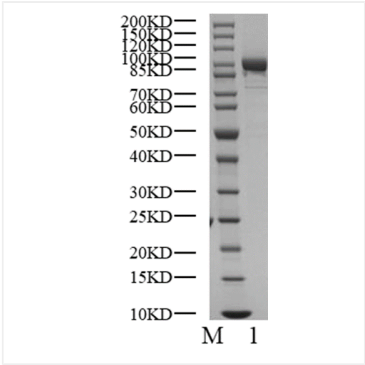
The activity of IKKε is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Storage

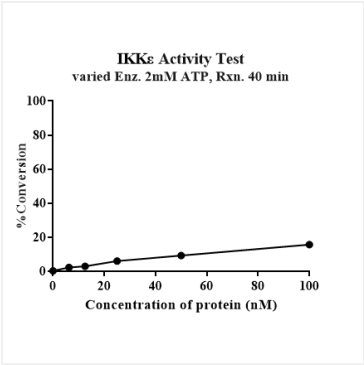
Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

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

Validation Data



Recombinant Human IKK epsilon/IKBKE Kinase was resolved with SDS-PAGE under reducing (Lane 1) conditions.



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