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Product Information

IKK-γ, GST-tagged, human recombinant, expressed in *Sf*9 cells

Catalog Number **SRP5349**
Storage Temperature –70 °C

Synonyms: IKBKG, AMCBX1, FIP-3, FIP3, Fip3p, IKK-gamma, IP, IP1, IP2, IPD2, NEMO

Product Description

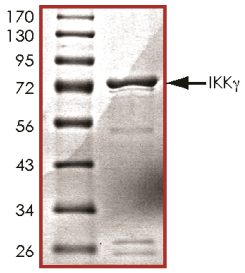
IKK-γ is a serine/threonine protein kinase that phosphorylates the I-kappa-B protein, which is an inhibitor of the transcription factor NF-κB complex. Phosphorylation of I-kappa-B protein triggers the degradation of the inhibitor via the ubiquitination pathway, thereby, activating NF-κB complex. IKK-γ forms dimers and trimers, and interacts preferentially with IKK-β but not IKK-α.[1] IKK-γ associates with activated ATM after the induction of DNA double-strand breaks.[2] ATM phosphorylates ser[85] of IKK-γ to promote its ubiquitin-dependent nuclear export.

Recombinant full-length human IKK-γ was expressed by baculovirus in *Sf*9 insect cells using an N-terminal GST-tag. The gene accession number is NM_003639. It is supplied in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, AND 25% glycerol.

Molecular mass: ~73 kDa

The enzymatic activity of this product has not been determined.

Figure 1.
SDS-PAGE Gel of Typical Lot:
≥70% (SDS-PAGE, densitometry)



Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at –70 °C is recommended. After opening, aliquot into smaller quantities and store at –70 °C. Avoid repeated handling and multiple freeze/thaw cycles.

References

1. Rothwarf, D.M. et al., IKK-gamma is an essential regulatory subunit of the I-kappa-B kinase complex. Nature, **395**, 297-300 (1998).
2. Wu, Z-H. et al., Molecular linkage between the kinase ATM and NF-kappaB signaling in response to genotoxic stimuli. Science, **311**, 1141-1146 (2006).

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