

Certificate of Analysis

IKBKB (IKK beta), 10 µg

Recombinant Human Inhibitor of Kappa Light Chain Gene Enhancer in B Cells, Kinase Beta, GST-tagged

ThermoFisher
SCIENTIFIC

Part Number: PV3836

Lot Number: 1885150-2G

Immediate Storage: -80°C

Shipping Conditions: dry ice

5781 Van Allen Way

Carlsbad, CA 92008

Phone: 760.603.7200

www.thermofisher.com

Description:

Recombinant Human Full-Length protein, GST-tagged, expressed in insect cells. No special measures were taken to activate this kinase.

Specific Activity:

96 nmoles of phosphate transferred to IKKtide peptide substrate (KKKKERLLDDRHSGLDSMKDEE) per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 8.33 µg/mL.

Concentration:

0.42 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard.

Calculated **3,680 nM**.

Aliases:

IKK2, NFKB1KB, IKK Beta

Storage and Handling:

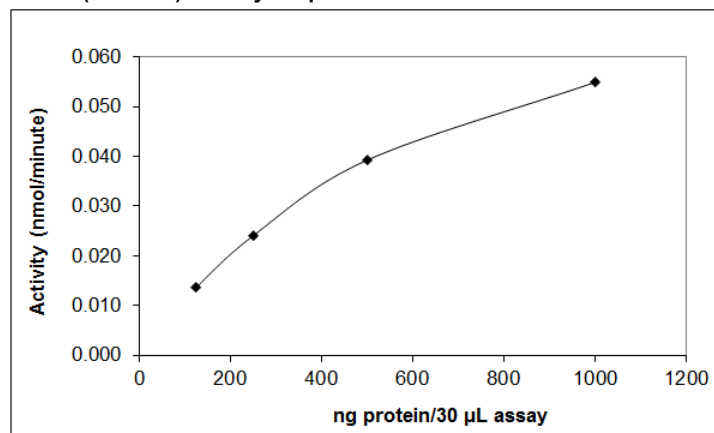
For maximum recovery please spin prior to use. Unless noted below, aliquots of the 5 µg, 10 µg and 20 µg sizes of kinase are not recommended as materials can be used in original packaging until exhausted. For larger sizes, the number of freeze/thaws may be reduced by preparing aliquots, aliquots below 20 µL are not recommended. **Please never store a kinase diluted.** If properly stored at -80°C, this product is guaranteed for 6 months from date of purchase.

Storage Buffer:

50 mM Tris (pH 7.5), 150 mM NaCl, 0.5 mM EDTA, 0.02% Triton® X-100, 2 mM DTT and 50% Glycerol.

QUALITY ASSURANCE

IKBKB (IKK beta) Activity Graph



Dilution Buffer:

20 mM Tris (pH 7.5), 0.02% Triton® X-100, 0.1 mg/mL BSA, 2 mM DTT, 0.5 mM Na₃VO₄ and 10% Glycerol.

Assay Conditions:

IKBKB (IKK beta) was pre-diluted in enzyme dilution buffer and assayed in 25 mM Tris (pH 7.5), 10 mM MgCl₂, 0.5 mM EGTA, 0.5 mM Na₃VO₄, 5 mM β-glycerophosphate, 2.5 mM DTT, 0.01% Triton® X-100, 200 µM ATP, 50 µg/mL IKKtide peptide substrate (KKKKERLLDDRHSGLDSMKDEE) and trace [³²P]-γ-ATP for 10 minutes at 30°C.

Gel Information for IKBKB (IKK beta)

Page Description: The SDS-PAGE and/or Native PAGE were run on 4-20% Tris-Glycine Novex® gels (Catalog #: EC6025BOX).

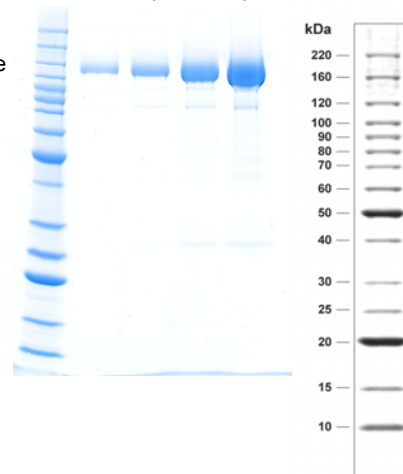
Lane 1: Invitrogen™ BenchMark™ Protein Ladder (Catalog #: 10747-012).

Lane 2: 0.5 µg IKBKB (IKK beta)

Lane 3: 1.0 µg IKBKB (IKK beta)

Lane 4: 2.5 µg IKBKB (IKK beta)

Lane 5: 5.0 µg IKBKB (IKK beta)



Purity:

90% as determined by a Coomassie® blue stained SDS-PAGE gel.

Molecular Weight:

114.0 kDa. Calculated from the protein sequence(s).

Mass Spectrometry:

IKBKB (IKK beta) was subjected to proteolytic digest followed by mass spec analysis. The resulting MS/MS data verified IKBKB (IKK beta) identity by comparison against the amino acid sequence(s) of the recombinant protein.

Part Number: PV3836, Lot Number: 1885150-2G

GenBank Accession Number: NP_001547

[illegible]

* highlighted residues denote differences from the reference protein sequence(s).

Anita Targosz

Date: 22/Aug/2017

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