

Certificate of Analysis

SLK, 10 µg

Ste20-Like Kinase, GST-tagged



Part Number: PV3830

Lot Number: 1758878D

Immediate Storage: -80°C

Shipping Conditions: dry ice

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Description:

Recombinant human full-length protein, GST-tagged, expressed in insect cells. No special measures were taken to activate this kinase.

Specific Activity:

12 nmoles of phosphate transferred to Histone H3 substrate per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 8.33 µg/mL.

Concentration:

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

Calculated **1,680 nM**.

Aliases:

KIAA0204, STK2, se 20-9

Storage and Handling:

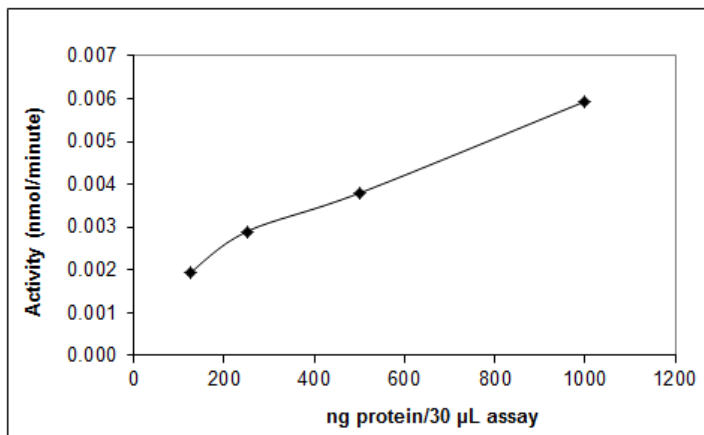
For maximum recovery please spin prior to use. Aliquots of the 5 µg, 10 µg and 20 µg sizes of kinase are not recommended as materials can be used in original packaging until exhausted. For larger sizes, the number of freeze/thaws may be reduced by preparing aliquots, aliquots below 20 µL are not recommended. **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

SLK 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:

SLK 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, 200 µg/mL Histone H3 substrate and trace [³²P]-γ-ATP for 10 minutes at 30°C.

Gel Information for SLK

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

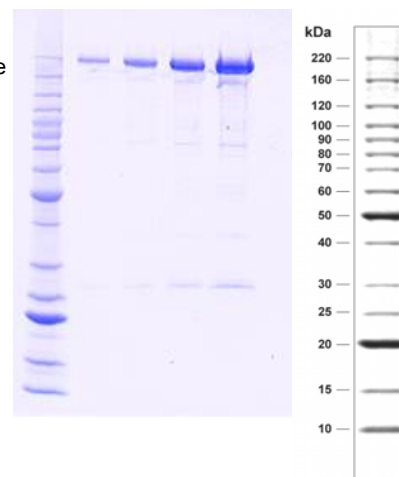
Lane 1: Invitrogen™ BenchMark™ Protein Ladder (Catalog #: 10747-012).

Lane 2: 0.5 µg SLK

Lane 3: 1.0 µg SLK

Lane 4: 2.5 µg SLK

Lane 5: 5.0 µg SLK



Purity:

80% as determined by a Coomassie® blue stained SDS-PAGE gel.

Molecular Weight:

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

Mass Spectrometry:

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

Protein sequence alignment with reference sequence(s)

GenBank Accession Number: NP_055535.1

Table showing protein sequence alignment with reference sequence(s). Columns represent different protein segments with their respective amino acid sequences. Some residues are highlighted to denote differences from the reference sequence.

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

Anita Targosz

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Date: 02/Dec/2015

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