

Certificate of Analysis

MLK4 active

Expression System: (Recombinant enzyme expressed in Sf21 insect cells)

Catalog Numbers: 16-051, 16-051-K, 16-051M

Parent Lot Number: 237306

Product Description

N-Terminal GST-tagged, recombinant, human MKL4, amino acid residues 114-420, expressed by baculovirus in Sf21 insect cells. Purified using glutathione agarose. Molecular Weight = 61 kDa.

Purity

49% by SDS-PAGE and Coomassie blue staining.

Specific Activity

Parent lot# 237306: 25 U/mg, where one unit of MLK4 activity is defined as 1 nmol phosphate incorporated into 2 mg/ml Casein per minute at 30°C with a final ATP concentration of 100 µM.

Formulation

0.36 mg/ml of enzyme in 50 mM Tris/HCl pH 7.5, 300 mM NaCl, 0.1 mM EGTA, 0.03% Brij-35, 270 mM sucrose, 1 mM benzamidine, 0.2 mM PMSF, 0.1% 2-mercaptoethanol. Frozen solution.

Storage and Stability

On receipt of material store at -70°C. Unopened reagent is stable for a minimum of 1 year from date of shipment when stored at recommended storage temperature. Avoid repeat freeze/thaw cycles. For maximum recovery of product, centrifuge original vial prior to removing the cap.

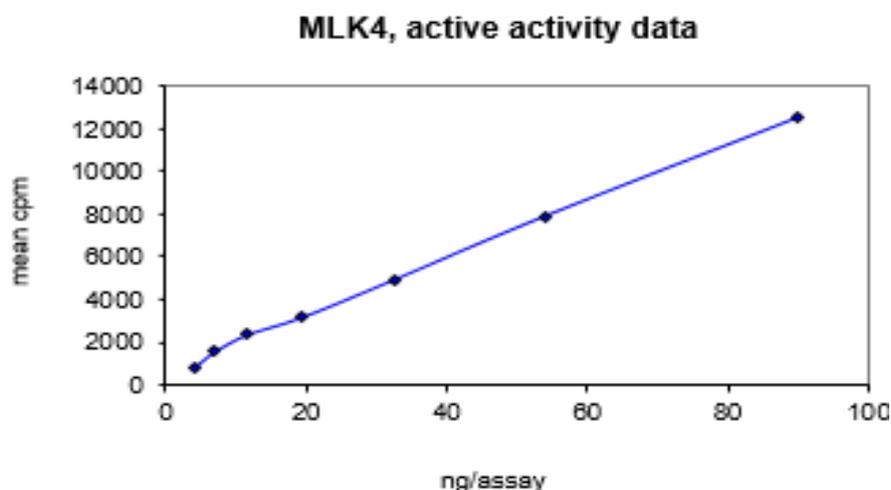
Handling Recommendations

Rapidly thaw the vial under cold water and immediately place on ice. Aliquot unused material into pre-chilled micro-centrifuge tubes and immediately snap-freeze the vials in liquid nitrogen prior to re-storage at -70°C.

Quality Control Testing

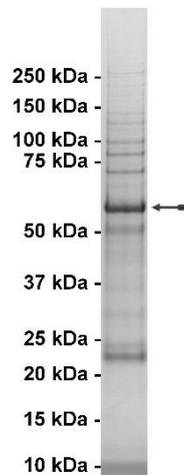
Kinase Assay:

4.2–90.0 ng of this lot of enzyme phosphorylated 2 mg/ml Casein in a radiometric kinase assay. Assay background was subtracted from the actual counts to yield the results shown below.



MS Tryptic Fingerprint: Confirmed identity as MLK4 active with the translated sequence.

SDS-PAGE and Coomassie Stain: Purity was assessed by SDS-PAGE and Coomassie blue staining using 3 µg of MLK4 active.



The data presented in this document apply to the parent lot shown above and to all pack sizes derived from subsequent vialling runs of this parent lot. An alphabetical suffix after the parent lot number is used to denote each vialling run.

Sequence Information

Protein	Human MLK4
Tags	N-terminal GST
Native sequence	S231 of the recombinant protein is equivalent to S114 of human MLK4.
Accession number	GenBank BC136649.1

For Research Use Only

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