

Certificate of Analysis

CK1 alpha, active

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

Catalog Numbers: 16-050, 16-050-K, 16-050M

Parent Lot Number: D17PP001N

Product Description

N-terminal FLAG-tagged, N-terminal 6His-tagged, recombinant, human CK1 alpha, full length, expressed by baculovirus in Sf21 insect cells. Purified using immuno-affinity chromatography and immobilized metal affinity chromatography. Molecular Weight = 42 kDa.

Purity

67% by SDS-PAGE and Coomassie blue staining.

Specific Activity

Parent lot# D17PP001N: 2670 U/mg, where one unit of CK1alpha activity is defined as 1 nmol phosphate incorporated into 200 μ M KRRRALS(p)VASLPGL per minute at 30°C with a final ATP concentration of 100 μ M.

Formulation

0.1 mg/ml of enzyme in 50 mM Tris/HCl pH7.5, 280 mM NaCl, 260 mM imidazole, 0.09 mM EGTA, 0.03% Brij-35, 270 mM sucrose, 0.9 mM benzamidine, 0.2 mM PMSF, 0.09% 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.

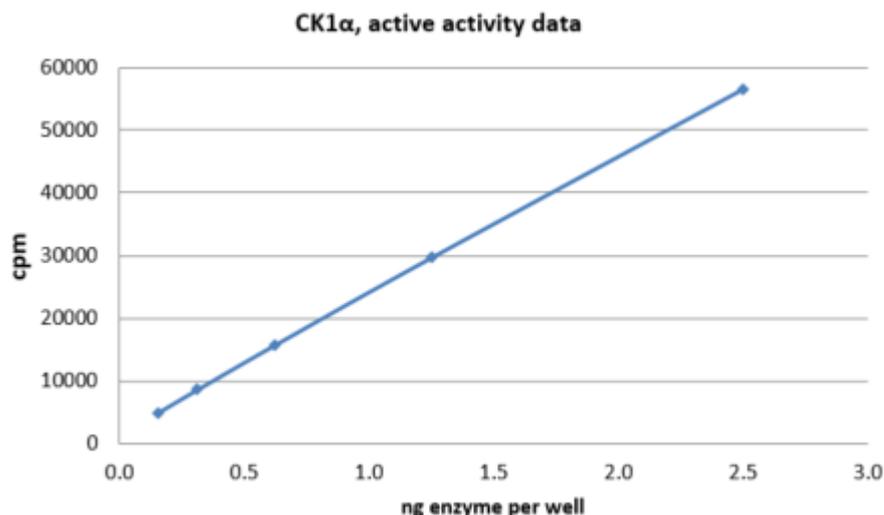
Handling Recommendations

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

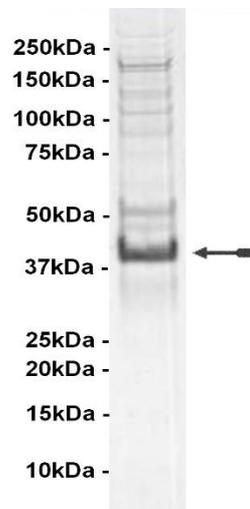
Kinase Assay:

0.2–2.5 ng of this lot of enzyme phosphorylated 200 μ M KRRRALS(p)VASLPGL 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 CK1alpha, active with the translated sequence.

SDS-PAGE and Coomassie Stain: Purity was assessed by SDS-PAGE and Coomassie blue staining using 3 µg of CK1alpha, 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 CK1 alpha
Tags	N-terminal FLAG-tag and N-terminal 6His-tag
Native sequence	M24 of the recombinant sequence is equivalent to M1 of native CK1 alpha
Accession number	GenBank L37042.1

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