

Kemptide Substrate



TECHNICAL SPECIFICATIONS

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Kemptide Substrate Peptide Product #: SPK-101

Source

Synthetic Kemptide substrate peptide (LRRASLG)

Related Active Kinases

Active p70 S6K, product# PPK-439

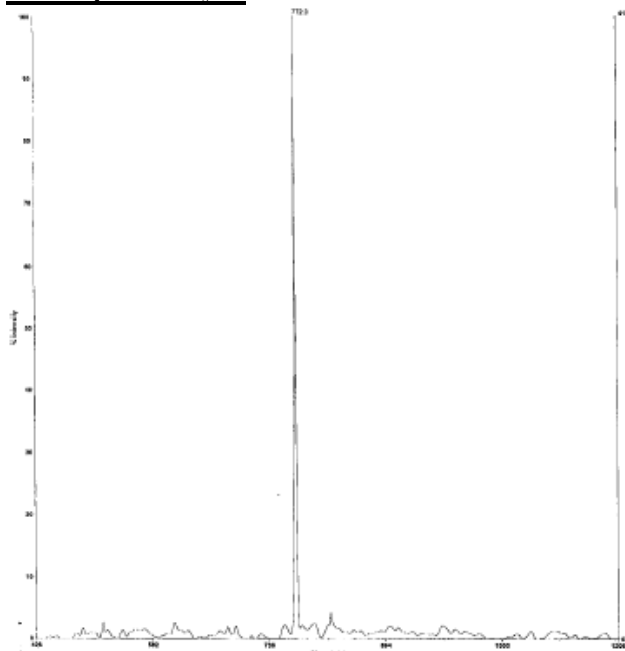
Sample Kinase Assay Protocol

- 5 µl Active p70 S6K (1:10 dilution)
- 5 µl Kemptide substrate peptide (product# SPK-101) (1 mg/ml stock)
- 10 µl Assay dilution buffer (20 mM MOPS, pH 7.2, 12.5 mM β-glycerophosphate, 5 mM EGTA, 2 mM EDTA, 20 mM MgCl₂, 0.25 mM DTT, 5 µM β-methyl aspartic acid)
- 5 µl [³²P] ATP (250 µM stock, 166 nCi/µl)

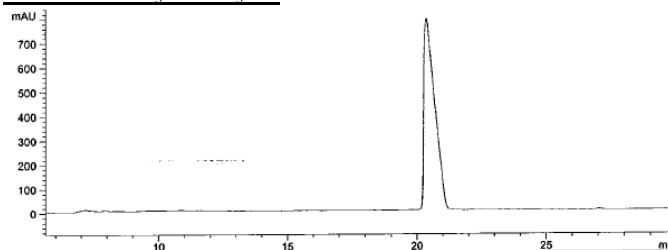
Incubate all components, except [³²P] ATP, at 30°C and then start the reaction by adding [³²P] ATP. After 15 minutes, terminate the reaction by spotting 20 µl of the reaction mixture onto phosphocellulose P81 paper. Dry the P81 paper and then wash several times in 1% phosphoric acid prior to counting in the presence of scintillation fluid in a scintillation counter.

*These working dilutions are provided as suggestions only. Each user should determine the optimal conditions for their own particular experiment.

Mass Spec Analysis



HPLC Purity Analysis



Rev: 10/08/04

CERTIFICATE OF ANALYSIS

Kemptide Substrate

Product #: SPK-101

Size: 1mg

Lot #: B410472

Format: Purified synthetic Kemptide substrate peptide, may contain TFA salt. This peptide is supplied as a lyophilized white powder.

Reconstitution Instructions: For a stock solution of 1 mg/ml reconstitute with 1mL of sterile kinase assay dilution buffer (20 mM MOPS, pH 7.2, 12.5 mM β-glycerophosphate, 5 mM EGTA, 2 mM EDTA, 20 mM MgCl₂, 0.25 mM DTT, 5 µM β-methyl aspartic acid).

Purity: This peptide is ≥95% pure as determined by HPLC analysis.

Theoretical Mass: 772.0 Da

Mass Found: 772.3 Da

STORAGE & SHIPPING: Store frozen product at or below -20°C. Thawed product may be stored for 2-4 weeks at 4°C. For optimal storage, aliquot to smaller portions and store at -20°C. Avoid repeated freeze/thaw cycles. For maximum product recovery, after thawing, centrifuge the product vial before removing cap. Shipped on gel packs.



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