

Crosstide Substrate



TECHNICAL SPECIFICATIONS

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Crosstide Substrate Peptide Product #: SPK-108

Source

Synthetic Crosstide substrate peptide (GRPRTSSFAEG)

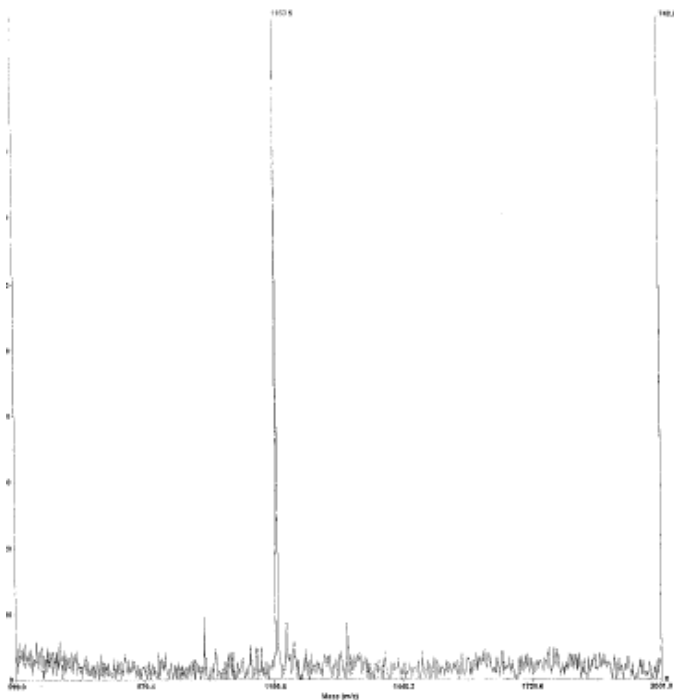
Sample Kinase Assay Protocol

- 5 μ l Active Akt*
- 5 μ l Crosstide substrate peptide (product# SPK-108) (1 mg/ml stock)
- 10 μ l Assay dilution buffer (20 mM MOPS, pH 7.2, 12.5 mM β -glycerophosphate, 5 mM EGTA, 2 mM EDTA, 20 mM $MgCl_2$, 0.25 mM DTT, 5 μ M β -methyl aspartic acid)
- 5 μ l [^{32}P] ATP (250 μ M stock, 166 nCi/ μ l)

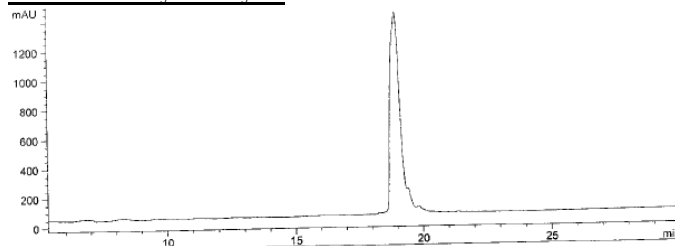
Incubate all components, except [^{32}P] ATP, at 30 $^{\circ}$ C and then start the reaction by adding [^{32}P] ATP. After 15 minutes, terminate the reaction by spotting 20 μ l of the reaction mixture onto phosphocellulose P81 paper. Dry the P81 paper and then wash several times in 1% phosphoric acid 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: 10/28/05

CERTIFICATE OF ANALYSIS

Crosstide Substrate

Product #: SPK-108

Size: 1mg

Lot #: B509404

Format: Purified synthetic Crosstide 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 $MgCl_2$, 0.25 mM DTT, 5 μ M β -methyl aspartic acid).

Purity: This peptide is $\geq 95\%$ pure as determined by HPLC analysis.

Theoretical Mass: 1163.3 Da

Mass:

Mass Found: 1163.5 Da

STORAGE & SHIPPING: Store frozen product at or below -20 $^{\circ}$ C. Thawed product may be stored for 2-4 weeks at 4 $^{\circ}$ C. For optimal storage, aliquot to smaller portions and store at -20 $^{\circ}$ 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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