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Certificate of Analysis

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Product Name: **pp60 c-src (521-533) (phosphorylated)** **Catalog No.: 1923** **Batch No.: 3**
CAS Number: 149299-77-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{62}H_{95}N_{16}O_{28}P$
Batch Molecular Weight:	1543.5
Physical Appearance:	White lyophilised solid
Net Peptide Content:	88.5%
Counter Ion:	Trifluoroacetate
Solubility:	Soluble to 1 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	Thr-Ser-Thr-Glu-Pro-Gln-pTyr-Gln-Pro-Gly-Glu-Asn-Leu

2. ANALYTICAL DATA

HPLC:	Shows 95.0% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys		
Arg			Met		
Asx	1.00	1.01	Phe		
Cys			Pro	2.00	2.04
Glx	4.00	3.96	Ser	1.00	0.89
Gly	1.00	1.01	Thr	2.00	1.97
His			Trp		
Ile			Tyr	1.00	0.99
Leu	1.00	1.03	Val		

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CAS Number: 149299-77-4

Description:

Peptide corresponding to the pp60$^{c\text{-}src}$ carboxy terminal regulatory domain; phosphorylated at Tyr^{527}. Binds to pp60$^{c\text{-}src}$ and pp60$^{v\text{-}src}$ at the SH2 domain, suppressing their tyrosine kinase activity and transforming potential.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{62}H_{95}N_{16}O_{28}P$

Batch Molecular Weight: 1543.5

Physical Appearance: White lyophilised solid

Peptide Sequence:

Thr-Ser-Thr-Glu-Pro-Gln-pTyr-Gln-Pro-Gly-Glu-Asn-Leu

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Net Peptide Content: 88.5% (Remaining weight made up of counterions and residual water).

Counter Ion: Trifluoroacetate

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such Cys, Met,Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

References:

Roussel *et al* (1991) Selective binding of activated pp60$^{c\text{-}src}$ by an immobilized synthetic phosphopeptide modeled on the carboxy terminus of pp60$^{c\text{-}src}$. Proc.Natl.Acad.Sci.U.S.A. ***88*** 10696. PMID: 1720546.

Harder *et al* (1994) Characterization and kinetic analysis of the intracellular domain of human protein tyrosine phosphatase beta (HPTP beta) using synthetic phosphopeptides. Biochem.J. ***298*** 395. PMID: 8135747.