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Certificate of Analysis

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Product Name: ***N*-Acetyl-*O*-phosphono-Tyr-Glu-Glu-Ile-Glu** **Catalog No.: 1927** **Batch No.: 1**

CAS Number: 159439-02-8

IUPAC Name: *N*-Acetyl-*O*-phosphono-L-tyrosyl-L-α-glutamyl-L-α-glutamyl]-L-α-glutamyl-L-isoleucyl]-L-glutamic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{32}H_{46}N_5O_{17}P$

Batch Molecular Weight: 803.71

Physical Appearance: White lyophilised solid

Net Peptide Content: 95%

Solubility: Soluble to 1 mg/ml in water

Storage: Desiccate at -20°C

Peptide Sequence: Ac-pTyr-Glu-Glu-Ile-Glu

2. ANALYTICAL DATA

HPLC: Shows >95% purity

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys		
Arg			Met		
Asx			Phe	1.00	1.03
Cys			Pro		
Glx	3.00	2.98	Ser		
Gly			Thr		
His			Trp		
Ile	1.00	0.99	Tyr		
Leu			Val		

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Description:

Phosphopeptide ligand for the src SH2 domain (IC_{50} = 1 µM). Blocks src interactions with EGFR and FAK.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{32}H_{46}N_5O_{17}P$

Batch Molecular Weight: 803.71

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-pTyr-Glu-Glu-Ile-Glu

Storage: Desiccate 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: 95% (Remaining weight made up of counterions and residual water).

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:

Gilmer *et al* (1994) Peptide inhibitors of src SH3-SH2-phosphoprotein interactions. J.Biol.Chem. ***269*** 31711. PMID: 7527393.

Pacofsky *et al* (1998) Potent dipeptide inhibitors of the pp60c-src SH2 domain. J.Med.Chem. ***41*** 1894. PMID: 9599239.

Park *et al* (2002) Design and characterization of non-phosphopeptide inhibitors for src family SH2 domains. Bioorg.Med.Chem.Lett. ***12*** 2711. PMID: 12217360.