

**Product Name:** Caffeic acid-pYEEIE

**Catalog No.:** 1935

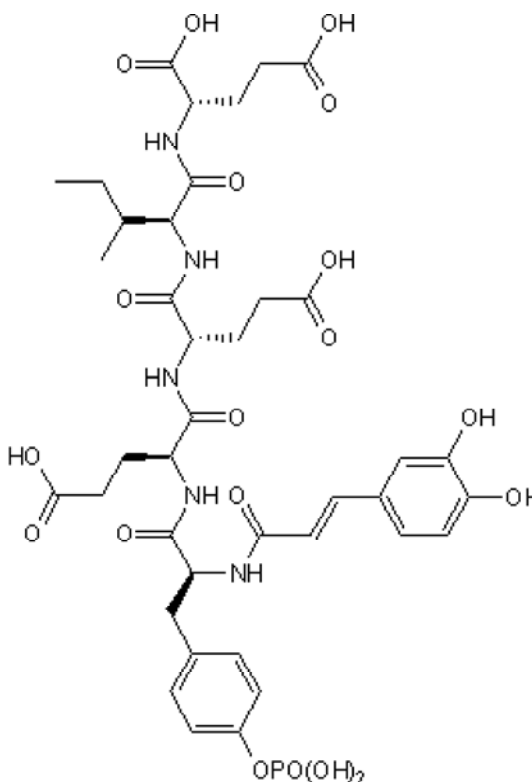
**Batch No.:** 3

CAS Number: 507471-72-9

IUPAC Name: *N*-[3-(3,4-Dihydroxyphenyl)-1-oxo-2-propenyl]-*O*-phosphono-L-tyrosyl-L- $\alpha$ -glutamyl-L- $\alpha$ -glutamyl-L-isoleucyl-L-glutamic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>39</sub>H<sub>50</sub>N<sub>5</sub>O<sub>19</sub>P  
**Batch Molecular Weight:** 923.82  
**Physical Appearance:** White lyophilised solid  
**Counter Ion:** TFA  
**Solubility:** Soluble to 2 mg/ml in PBS  
**Storage:** Store at -20°C  
**Peptide Sequence:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 97.9% purity  
**Mass Spectrum:** Consistent with structure

**3. AMINO ACID ANALYSIS DATA**

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys		
Arg			Met		
Asx			Phe		
Cys			Pro		
Glx	3.00	2.96	Ser		

Caution - Not Fully Tested for Research Use Only • Not For Human or Veterinary Use

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**Description:**

Caffeic acid-pYEEIE is a phosphopeptide ligand for the src SH2 domain ( $IC_{50}$  = 42 nM); displays 30-fold higher affinity than N-acetyl-O-phosphono-Tyr-Glu-Glu-Ile-Glu (Ac-pYEEIE, Cat. No. 1927).

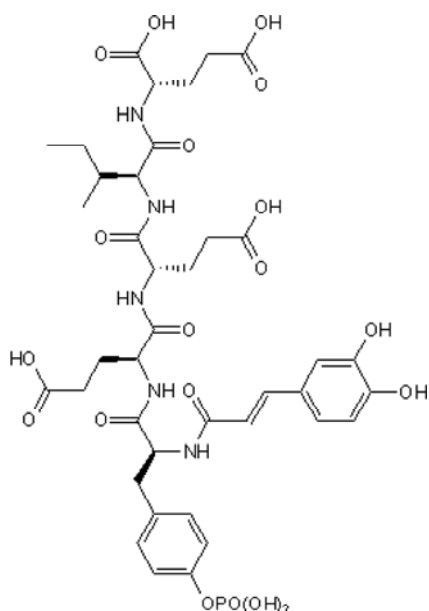
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>39</sub>H<sub>50</sub>N<sub>5</sub>O<sub>19</sub>P

Batch Molecular Weight: 923.82

Physical Appearance: White lyophilised solid

**Peptide Sequence:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

Soluble to 2 mg/ml in PBS

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.

**Counter Ion:** TFA

**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 as 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  $\mu$ m filter to remove potential bacterial contamination whenever possible.

**References:**

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

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