

Certificate of Analysis

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Product Name: 740 Y-P
CAS Number: 1236188-16-1

Catalog No.: 1983 **Batch No.:** 18

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄₁H₂₂₂N₄₃O₃₉PS₃
Batch Molecular Weight: 3270.72
Physical Appearance: White lyophilised solid
Net Peptide Content: 67%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Arg-Gln-Ile-Lys-Ile-Trp-Phe-Gln-Asn-Arg-Arg-Met-Lys-Trp-Lys-Lys-Ser-Asp-Gly-Gly-pTyr-Met-Asp-Met-Ser

2. ANALYTICAL DATA

HPLC: Shows 96.3% purity
Mass Spectrum: Consistent with structure

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

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CAS Number: 1236188-16-1

Description:

740 Y-P is a cell-permeable phosphopeptide activator of PI 3-kinase. Binds with high affinity to p85 subunit of the enzyme. Displays mitogenic activity in C2 muscle cells and promotes survival of rat cerebellar granule neurons in vitro.

Physical and Chemical Properties:Batch Molecular Formula: C₁₄₁H₂₂₂N₄₃O₃₉PS₃

Batch Molecular Weight: 3270.72

Physical Appearance: White lyophilised solid

Peptide Sequence:

Arg-Gln-Ile-Lys-Ile-Trp-Phe-Gln-Asn-Arg-
Arg-Met-Lys-Trp-Lys-Lys-Ser-Asp-Gly-Gly-
pTyr-Met-Asp-Met-Ser

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: 67% (Remaining weight made up of counterions and residual water).**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 µm filter to remove potential bacterial contamination whenever possible.

References:

Williams and Doherty (1999) Evidence for and against a pivotal role of PI 3-kinase in a neuronal cell survival pathway. *Mol.Cell.Neurosci.* **13** 272. PMID: 10328886.

Derossi et al (1998) Stimulation of mitogenesis by a cell-permeable PI 3-kinase binding peptide. *Biochem.Biophys.Res.Comm.* **251** 148.

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