
Product Name: Phospho-Glycogen Synthase Peptide-2 (substrate)
CAS Number: 851366-97-7

Catalog No.: 1352

Batch No.: 8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₂₃ H ₁₉₁ N ₄₀ O ₄₈ P
Batch Molecular Weight:	3029
Physical Appearance:	White lyophilised solid
Net Peptide Content:	70%
Counter Ion:	Trifluoroacetate
Solubility:	Soluble to 1 mg/ml in water
Storage:	Desiccate at -20°C
Peptide Sequence:	Tyr-Arg-Arg-Ala-Ala-Val-Pro-Pro-Ser-Pro- Ser-Leu-Ser-Arg-His-Ser-Ser-Pro-His-Gln- Ser-Glu-Asp-Glu-Glu-Glu OPO ₃ H ₂

2. ANALYTICAL DATA

HPLC:	Shows >99.5% purity
Mass Spectrum:	Consistent with structure

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

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956

Product Name: Phospho-Glycogen Synthase Peptide-2 (substrate)

Catalog No.: 1352

Batch No.: 8

CAS Number: 851366-97-7

Description:

Synthetic peptide suitable as a substrate for glycogen synthase kinase-3 (GSK-3).

Physical and Chemical Properties:

Batch Molecular Formula: C₁₂₃H₁₉₁N₄₀O₄₈P

Batch Molecular Weight: 3029

Physical Appearance: White lyophilised solid

Peptide Sequence:

Tyr-Arg-Arg-Ala-Ala-Val-Pro-Pro-Ser-Pro-
Ser-Leu-Ser-Arg-His-Ser-Ser-Pro-His-Gln-
Ser-Glu-Asp-Glu-Glu-Glu
|
OPO₃H₂

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: 70% (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 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:

Sutherland *et al* (1993) Inactivation of glycogen synthase kinase-3β by phosphorylation: new kinase connections in insulin and growth factor signalling. *Biochem.J.* **296** 15. PMID: 8250835.

Woodgett (1989) Use of peptide substrates for affinity purification of protein-serine kinases. *Anal.Biochem.* **180** 237. PMID: 2554753.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956