



Certificate of Analysis

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Product Name: TCS 183 Catalog No.: 2236 Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₈H₉₆N₂₀O₂₀S

Batch Molecular Weight: 1425.58

Physical Appearance: White lyophilised solid

Net Peptide Content: 87%

Solubility: Soluble to 1 mg/ml in water

Storage: Desiccate at -20°C

Peptide Sequence: Met-Ser-Gly-Arg-Pro-Arg-Thr-Thr-Ser-Phe

Ala-Glu-Ser-NH₂

2. ANALYTICAL DATA

HPLC: Shows >95% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actua
Ala	1.00	1.01	Lys		
Arg	2.00	1.98	Met	1.00	0.99
Asx			Phe	1.00	1.01
Cys			Pro	1.00	1.00
Glx	1.00	0.99	Ser	3.00	3.03
Gly	1.00	1.00	Thr	2.00	2.01
His			Trp		
lle			Tyr		
Leu			Val		

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



Product Information

Print Date: Nov 9th 2018

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Product Name: TCS 183 Catalog No.: 2236 Batch No.: 1

Description:

Fragment 1-13 of human and mouse GSK-3 β sequence. Potentially useful as a competitive inhibitor of GSK-3 β (Ser9) phosphorylation. Control Peptide also available.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{58}H_{96}N_{20}O_{20}S$ Batch Molecular Weight: 1425.58

Physical Appearance: White lyophilised solid

Peptide Sequence:

Met-Ser-Gly-Arg-Pro-Arg-Thr-Thr-Ser-Phe Ala-Glu-Ser-NH₂ 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: 87% (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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Peineau et al (2007) GSK3β mediates a novel interaction between LTP and LTD in the hippocampus. Neuron 53 703. PMID: 17329210.