

Certificate of Analysis

Print Date: Aug 3rd 2018

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Product Name: G-Protein antagonist peptide Catalog No.: 1931 Batch No.: 9

CAS Number: 143675-79-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{57}H_{64}N_{12}O_9S$ Batch Molecular Weight: 1093.27

Physical Appearance: White lyophilised solid

Net Peptide Content: 100% Counter Ion: TFA

Solubility: Soluble to 2 mg/ml in DMSO

Storage: Desiccate at -20°C

Peptide Sequence: Glp-Gln-D-Trp-Phe-D-Trp-Met-NH₂

2. ANALYTICAL DATA

HPLC: Shows 100% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Ala			Lys	
Arg			Met	
Asx			Phe	1.00
Cys			Pro	
Glx	2.00	2.10	Ser	
Gly			Thr	
His			Trp	
lle			Tyr	
Leu			Val	

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

0.90



Product Information

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Product Name: G-Protein antagonist peptide Catalog No.: 1931 Batch No.: 9

CAS Number: 143675-79-0

Description:

Substance P-related peptide that inhibits binding of G proteins to their receptors. Competitively and reversibly inhibits M_2 muscarinic receptor activation of G_i or G_o and inhibits G_s activation by β -adrenoceptors.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{57}H_{64}N_{12}O_9S$ Batch Molecular Weight: 1093.27

Physical Appearance: White lyophilised solid

Peptide Sequence:

Glp-Gln-D-Trp-Phe-D-Trp-D-Trp-Met-NH2

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in DMSO

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: 100% (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 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:

Mukai et al (1992) G protein antagonists. A novel hydrophobic peptide competes with receptor for G protein binding. J.Biol.Chem. **267** 16237. PMID: 1379592.

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