

Certificate of Analysis

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Product Name: M617
CAS Number: 860790-38-1

Catalog No.: 2697 **Batch No.:** 8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁₂H₁₆₁N₂₉O₂₈
Batch Molecular Weight: 2361.68
Physical Appearance: White lyophilised solid
Counter Ion: Acetate
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-Gln-Pro-Pro-Gly-Phe-Ser-Pro-Phe-Arg-NH₂

2. ANALYTICAL DATA

HPLC: Shows 99.3% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala	1.00	0.95	Lys				
Arg	1.00	1.03	Met				
Asx	1.00	1.01	Phe	2.00	1.98		
Cys			Pro	4.00	3.94		
Glx	1.00	1.03	Ser	2.00	2.00		
Gly	4.00	4.03	Thr	1.00	1.00		
His			Trp	1.00	Detected		
Ile			Tyr	1.00	0.99		
Leu	3.00	2.87	Val				

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

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Description:

M617 is a selective galanin GAL₁ receptor agonist (K_i values are 0.23 and 5.71 nM for GAL₁ and GAL₂ receptors respectively). Enhances food consumption in rats following i.c.v. administration and reduces CAP-induced inflammatory pain.

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Peptide Sequence:

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Leu-Gly-Pro-Gln-Pro-Pro-Gly-Phe-Ser-Pro-
Phe-Arg-NH₂

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.

Counter Ion: Acetate

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:

Jimenez-Andrade *et al* (2006) Activation of peripheral galanin receptors: differential effects on nociception. *Pharmacol.Biochem.Behav.* **85** 273. PMID: 16996122.

Mazarati *et al* (2006) Regulation of kindling epileptogenesis by hippocampal galanin type 1 and type 2 receptors: the effects of subtype-selective agonists and the role of G-protein-mediated signaling. *J.Pharmacol.Exp.Ther.* **318** 700. PMID: 16699066.

Lundstrom *et al* (2005) A galanin receptor subtype 1 specific agonist. *Int.J.Pept.Res.Ther.* **11** 17.

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