

Certificate of Analysis

www.tocris.com

Product Name: BIM 23042
CAS Number: 111857-96-6

Catalog No.: 3237 **Batch No.:** 6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₃H₇₃N₁₁O₉S₂
Batch Molecular Weight: 1192.46
Physical Appearance: White lyophilised solid
Net Peptide Content: 79%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in 0.1% acetic acid
Storage: Desiccate at -20°C
Peptide Sequence: D-Nal-Cys-Tyr-D-Trp-Lys-Val-Cys-Nal-NH₂

2. ANALYTICAL DATA

HPLC: Shows 98.6% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys	1.00		1.04
Arg				Met			
Asx				Phe			
Cys	2.00	Detected		Pro			
Glx				Ser			
Gly				Thr			
His				Trp	1.00	Detected	
Ile				Tyr	1.00		1.02
Leu				Val	1.00		0.94

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: BIM 23042

Catalog No.: 3237

Batch No.: 6

CAS Number: 111857-96-6

Description:

Selective neuromedin B receptor (NMB-R, BB₁) antagonist (K_i values are 216 and 18,264 nM for BB₁ and BB₂ receptors respectively). Displays no activity at a range of other receptors.

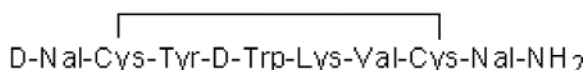
Physical and Chemical Properties:

Batch Molecular Formula: C₆₃H₇₃N₁₁O₉S₂

Batch Molecular Weight: 1192.46

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in 0.1% acetic acid

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: 79% (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:

Milusheva et al (1998) Role of different bombesin receptor subtypes mediating contractile activity in cat upper gastrointestinal tract. *Peptides* **19** 549. PMID: 9533644.

Ryan et al (1996) Pharmacological profiles of two bombesin analogues in cells transfected with human neuromedin B receptors. *Eur.J.Pharmacol.* **306** 307. PMID: 8813645.

Orbuch et al (1993) Discovery of a novel class of neuromedin B receptor antagonists, substituted somatostatin analogues. *Mol.Pharmacol.* **44** 841. PMID: 7901752.

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