

Certificate of Analysis

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Product Name: BIM 23052

Catalog No.: 2842

Batch No.: 2

CAS Number: 133073-82-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₆₁ H ₇₅ N ₁₁ O ₁₀
Batch Molecular Weight:	1122.3
Physical Appearance:	White lyophilised solid
Net Peptide Content:	69%
Counter Ion:	TFA
Solubility:	Soluble to 1 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	D-Phe-Phe-Phe-D-Trp-Lys-Thr-Phe-Thr-NH ₂

2. ANALYTICAL DATA

HPLC:	Shows 96% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys	1.00	1.02
Arg			Met		
Asx			Phe	4.00	4.06
Cys			Pro		
Glx			Ser		
Gly			Thr	2.00	1.92
His			Trp		
Ile			Tyr		
Leu			Val		

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

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Description:

Somatostatin sst₅ receptor agonist (K_i values are 7.3, 13.5, 31.3 and 141 nM for sst₅, sst₂, sst₁ and sst₄ receptors respectively). Stimulates gastric emptying following i.c. administration.

Physical and Chemical Properties:Batch Molecular Formula: C₆₁H₇₅N₁₁O₁₀

Batch Molecular Weight: 1122.3

Physical Appearance: White lyophilised solid

Peptide Sequence:D-Phe-Phe-Phe-D-Trp-Lys-Thr-Phe-Thr-NH₂**Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in water

Net Peptide Content: 69% (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:

Patel and Srikant (1994) Subtype selectivity of peptide analogs for all five cloned human somatostatin receptors (hsstr 1-5). *Endocrinology* **135** 2814. PMID: 7988476.

Martinez et al (2000) Intracisternal injection of somatostatin receptor 5-preferring agonists induces a vagal cholinergic stimulation of gastric emptying in rats. *J.Pharmacol.Exp.Ther.* **293** 1099. PMID: 10869415.

Nunn et al (2002) Pharmacological characterisation of the goldfish somatostatin sst5 receptor. *Eur.J.Pharmacol.* **436** 173. PMID: 11858797.

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