

Product Name: ANQ 11125

Catalog No.: 5074

Batch No.: 1

CAS Number: 153966-48-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈₆H₁₂₅N₁₉O₂₁
Batch Molecular Weight: 1761.05
Physical Appearance: White lyophilised solid
Net Peptide Content: 83%
Counter Ion: TFA
Storage: Store at -20°C
Peptide Sequence: Phe-Val-Phe-Ile-Phe-Thr-Tyr-Gly-Glu-Leu-Gln-Arg-Leu-Gln

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		
Arg	1.00	1.01	Met		
Asx			Phe	3.00	3.03
Cys			Pro		
Glx	3.00	3.01	Ser		
Gly	1.00	1.02	Thr	1.00	0.81
His			Trp		
Ile	1.00	0.83	Tyr	1.00	0.95
Leu	2.00	1.82	Val	1.00	0.90

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

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Description:

Selective motilin receptor antagonist ($pK_d = 8.24$). Exhibits no effect on acetylcholine, substance P or serotonin stimulated intestinal contraction.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{86}H_{125}N_{19}O_{21}$

Batch Molecular Weight: 1761.05

Physical Appearance: White lyophilised solid

Peptide Sequence:

Phe-Val-Phe-Ile-Phe-Thr-Tyr-Gly-Glu-Leu-Gln-Arg-Leu-Gln

Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

Most peptides are soluble in distilled water. If the peptide does not completely dissolve addition of 0.1M acetic acid (those containing Arg, Lys, His) or 0.1M ammonia (those containing Asp, Glu) may help. Occasionally 10% DMSO or DMF may be required for extremely insoluble peptides. In addition to these measures sonication may also be helpful.

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: 83% (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 $45-60^{\circ}C$ 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 $-20^{\circ}C$. 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 $0.2 \mu m$ filter to remove potential bacterial contamination whenever possible.

References:

Depoortere et al (1995) Antagonistic properties of [Phe³,Leu¹³]porcine motilin. Eur.J.Pharmacol. **286** 241. PMID: 8608785.

Peeters et al (1994) The motilin antagonist ANQ-11125 blocks motilide-induced contractions *in vitro* in the rabbit. Biochem.Biophys.Res.Comm. **198** 411. PMID: 8297350.

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