

Certificate of Analysis

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Product Name: QWF
CAS Number: 126088-82-2

Catalog No.: 6642 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₈H₄₃N₅O₈
Batch Molecular Weight: 697.78
Physical Appearance: White lyophilised solid
Net Peptide Content: 95%
Solubility: Soluble to 10 mg/ml in DMSO
Storage: Store at -20°C
Peptide Sequence: Boc-Gln-D-Trp(Formyl)-Phe-OBzl

2. ANALYTICAL DATA

HPLC: Shows 98% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

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

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

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Product Name: QWF
CAS Number: 126088-82-2

Catalog No.: 6642 **Batch No.:** 1

Description:

Tripeptide substance P (SP) antagonist (IC_{50} = 90 μ M). Also inhibits binding of SP to Mas-related GPCR (MRGPR) X2. Inhibits SP-induced IgE-independent degranulation of mast cells in vitro. Inhibits compound 48/80-induced MRGPRX2 activation and scratching in mice in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{38}H_{43}N_5O_8$
Batch Molecular Weight: 697.78
Physical Appearance: White lyophilised solid

Peptide Sequence:

Boc-Gln-D-Trp(Formyl)-Phe-OBzl

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 10 mg/ml in DMSO
This product is supplied in gross weight.

Net Peptide Content: 95% (Remaining weight made up of counterions and residual water).

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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Azimi *et al* (2016) Dual action of neurokinin-1 antagonists on Mas-related GPCRs. *JCI Insight*. **1** e89362. PMID: 27734033.

Hagiwara *et al* (1992) Studies on neurokinin antagonists. 1. The design of novel tripeptides possessing the glutamyl-D-tryptophylphenylalanine sequence as substance P antagonists. *J. Med. Chem.* **35** 2015. PMID: 1375965.

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