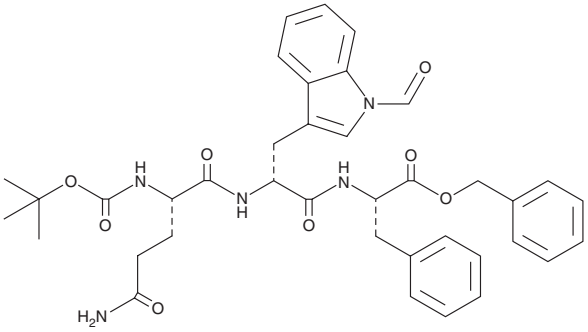
PRODUCT INFORMATION

QWF Peptide

Item No. 46373

CAS Registry No.:	126088-82-2
Formal Name:	N^2-[(1,1-dimethylethoxy)carbonyl]-L-glutaminyl-1-formyl-D-tryptophyl-L-phenylalanine, phenylmethyl ester
Synonyms:	Boc-Gln-D-Trp(CHO)-Phe-OBzl, Boc-Gln-D-Trp(formyl)-Phe benzyl ester
Peptide Sequence:	Boc-Qw(CHO)F-OBzl
MF:	$C_{38}H_{43}N_5O_8$
FW:	697.8
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

QWF peptide is supplied as a solid. A stock solution may be made by dissolving the QWF peptide in the solvent of choice, which should be purged with an inert gas. QWF peptide is soluble (≥10 mg/ml) in DMSO.

Description

QWF peptide is a substance P (SP) antagonist (IC_{50} = 0.09 µM).[1] It inhibits SP-induced activation of the neurokinin-1 (NK_1) receptor, human MAS-related G protein-coupled receptor family member X2 (MRGPRX2), mouse MrgprB2, and mouse MrgprA1.[2] QWF peptide inhibits contractions induced by SP (Item No. 24035; IC_{50} = 4.7 µM) but not histamine (Item No. 33828) in guinea pig tracheal strips.[1] It also inhibits mast cell degranulation induced by SP, compound 48/80 (Item No. 22173), atracurium (Item No. 17796), or ciprofloxacin (Item No. 14286) in LAD 2 cells at 100 µM.[2] QWF peptide reduces SP- or compound 48/80-induced itch in mice.

References

1. Hagiwara, D., Miyake, H., Morimoto, H., *et al.* Studies on neurokinin antagonists. 1. The design of novel tripeptides possessing the glutaminyl-D-tryptophylphenylalanine sequence as substance P antagonists. *J. Med. Chem.* **35(11),** 2015-2025 (1992).
2. Azimi, E., Reddy, V.B., Shade, K.-T.C., *et al.* Dual action of neurokinin-1 antagonists on Mas-related GPCRs. *JCI Insight* **1(16),** e89362 (2016).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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