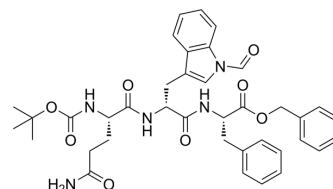


## QWF Peptide

Cat. No.:	HY-135108
CAS No.:	126088-82-2
Molecular Formula:	C <sub>38</sub> H <sub>43</sub> N <sub>5</sub> O <sub>8</sub>
Molecular Weight:	697.78
Sequence:	{Boc}-Gln-{d-Trp(Formyl)}-Phe-{OBzl}
Sequence Shortening:	{Boc}-Q-{d-Trp(Formyl)}-F-{OBzl}
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture
	Powder    -80°C    2 years
	-20°C    1 year

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 100 mg/mL (143.31 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.4331 mL	7.1656 mL	14.3312 mL
	5 mM		0.2866 mL	1.4331 mL	2.8662 mL
	10 mM		0.1433 mL	0.7166 mL	1.4331 mL

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

### Description

QWF Peptide (Compound 4a) is a substance P antagonist with an IC<sub>50</sub> of 0.09 μM. QWF Peptide antagonizes the SP-induced contraction of isolated guinea pig trachea strips with an IC<sub>50</sub> of 4.7 μM<sup>[1]</sup>.

### IC<sub>50</sub> & Target

IC<sub>50</sub>: 0.09 μM (substance P)<sup>[1]</sup>

## REFERENCES

[1]. Hagiwara D, 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. 1992 May 29;35(11):2015-25.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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