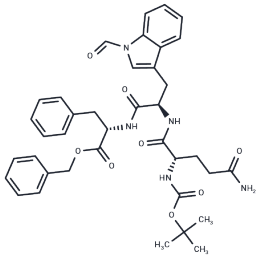
Data Sheet (Cat.No.TP1946)

QWF

Chemical Properties



CAS No. : 126088-82-2

Formula: C38H43N5O8

Molecular Weight: 697.78

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Tripeptide substance P (SP) antagonist (IC50 = 90 μM). 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.
Targets(IC50)	Neurokinin receptor

Solubility Information

Solubility	DMSO: 10 mg/mL (14.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0287 mL	0.1433 mL	0.2866 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hagiwara et al (1992) Studies on neurokinin antagonists. 1. The design of novel tripeptides possessing the glutaminyl-D-tryptophylphenylalanine sequence as substance P antagonists. J.Med.Chem. 35 2015 PMID:
Azimi et al (2016) Dual action of neurokinin-1 antagonists on Mas-related GPCRs. JCI Insight. 1 e89362 PMID:

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