

TFLLR-NH2(TFA)

Chemical Properties

CAS No.:	1313730-19-6
Formula:	C33H54F3N9O8
Molecular Weight:	761.83
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	TFLLR-NH2 (TFA) is a selective PAR1 agonist with an EC50 of 1.9 μ M. EC50: 1.9 μ M (PAR1)
In vivo	Injection of TF-NH2 into the rat paw stimulates a marked and sustained oedema. An NK1R antagonist and ablation of sensory nerves with capsaicin inhibit oedema by 44% at 1 h and completely by 5 h. In wild-type but not PAR1 -/- mice, TF-NH2 stimulates Evans blue extravasation in the bladder, oesophagus, stomach, intestine and pancreas by 2-8 fold. Extravasation in the bladder, oesophagus and stomach is abolished by an NK1R antagonist[1]. TFp-NH2 produces notable contraction at 3-50 μ M and relaxation at 0.3-50 μ M, in the absence of apamin. The concentration-response curve for TFp-NH2-induced contraction is remarkably shifted left, when the TFp-NH2-induced relaxation is blocked by apamin at 0.1 μ M[3].

Solubility Information

Solubility	DMSO: 100 mg/mL (131.26 mM) H2O: 100 mg/mL (131.26 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.313 mL	6.563 mL	13.126 mL
5 mM	0.263 mL	1.313 mL	2.625 mL
10 mM	0.131 mL	0.656 mL	1.313 mL
50 mM	0.026 mL	0.131 mL	0.263 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. de Garavilla L, et al. Agonists of proteinase-activated receptor 1 induce plasma extravasation by a neurogenic mechanism. Br J Pharmacol. 2001 Aug;133(7):975-87.

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