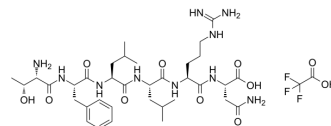


Protease-Activated Receptor-1, PAR-1 Agonist TFA

Cat. No.:	HY-P2518A
Molecular Formula:	C ₃₇ H ₅₉ F ₃ N ₁₀ O ₁₁
Molecular Weight:	876.92
Sequence:	Thr-Phe-Leu-Leu-Arg-Asn
Sequence Shortening:	TFLLRN
Target:	Protease Activated Receptor (PAR)
Pathway:	GPCR/G Protein
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

H₂O : 6.67 mg/mL (7.61 mM); ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.1404 mL	5.7018 mL	11.4035 mL
	5 mM	0.2281 mL	1.1404 mL	2.2807 mL
	10 mM	---	---	---

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 5 mg/mL (5.70 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Protease-Activated Receptor-1, PAR-1 Agonist TFA is a selective proteinase-activated receptor1 (PAR-1) agonist peptide. Protease-Activated Receptor-1, PAR-1 Agonist TFA corresponds to PAR1 tethered ligand and which can selectively mimic the actions of thrombin via this receptor^{[1][2]}.

In Vitro

Protease-Activated Receptor-1, PAR-1 Agonist induces activation of protein kinase C isoenzymes alpha and epsilon in human HT-29 colon carcinoma cells expressing PAR1 endogeneously. On the cellular level, Protease-Activated Receptor-1, PAR-1 Agonist and thrombin prompted HT-29 cell migration and matrix adhesion by a PKCepsilon-dependent mechanism as concluded because of the inhibition of PAR1-mediated effects by the PKC inhibitor bisindolylmaleimide I and the PKCepsilon translocation inhibitory peptide EAVSLKPT but not by the PKC inhibitor Gö 6976^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Heider I, et al. PAR1-type thrombin receptor stimulates migration and matrix adhesion of human colon carcinoma cells by a PKCepsilon-dependent mechanism. *Oncol Res.* 2004;14(10):475-482.
- [2]. Stefanie Gödecke, et al. Thrombin-induced ATP release from human umbilical vein endothelial cells. *Am J Physiol Cell Physiol.* 2012 Mar 15;302(6):C915-23.
-

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA