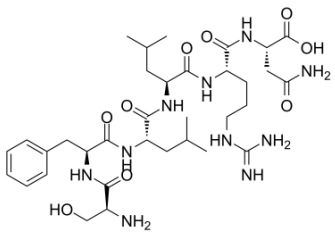
TRAP-6

Cat. No.:	HY-P0078
CAS No.:	141136-83-6
Molecular Formula:	$C_{34}H_{56}N_{10}O_9$
Molecular Weight:	748.87
Sequence:	Ser-Phe-Leu-Leu-Arg-Asn
Sequence Shortening:	SFLLRN
Target:	Protease-Activated Receptor (PAR)
Pathway:	GPCR/G Protein
Storage:	Powder -80°C 2 years -20°C 1 year In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 33.33 mg/mL (44.51 mM; Need ultrasonic)
DMSO : ≥ 28 mg/mL (37.39 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.3353 mL	6.6767 mL	13.3535 mL
5 mM	0.2671 mL	1.3353 mL	2.6707 mL
10 mM	0.1335 mL	0.6677 mL	1.3353 mL

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

BIOLOGICAL ACTIVITY

Description

TRAP-6 (PAR-1 agonist peptide), a peptide fragment, is a selective protease activating receptor 1 (PAR1) agonist. TRAP-6 activates human platelets via the thrombin receptor. TRAP-6 shows no activity at PAR4[1].

IC_{50} & Target

PAR1[1]

In Vitro

TRAP-6 (0.01-10 μM) trigger calcium mobilization in Xenopus oocytes heterologously expressing PAR1[1].
TRAP-6 (0.01-10 μM; 30 min) activates human platelets[1].
TRAP-6 (100 μM) does not cause the platelets of rabbits or rats to change shape, aggregate, release granule contents, or form thromboxane[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo	TRAP (1 mg/kg; i.v.) produces a biphasic response in blood pressure in inactin-anesthetized rats[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Mol Med Rep. 2019 Jun;19(6):5291-5300.

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REFERENCES

[1]. Kahn ML, et, al. Protease-activated receptors 1 and 4 mediate activation of human platelets by thrombin. J Clin Invest. 1999 Mar;103(6):879-87.

[2]. Kinlough-Rathbone RL, et, al. Rabbit and rat platelets do not respond to thrombin receptor peptides that activate human platelets. Blood. 1993 Jul 1;82(1):103-6.

[3]. Chintala MS, et, al. Disparate effects of thrombin receptor activating peptide on platelets and peripheral vasculature in rats. Eur J Pharmacol. 1998 May 22;349(2-3):237-43.

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