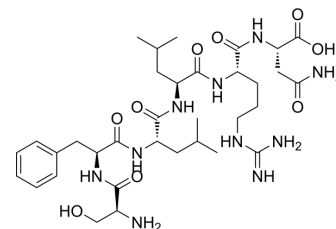


## TRAP-6

<b>Cat. No.:</b>	HY-P0078
<b>CAS No.:</b>	141136-83-6
<b>Molecular Formula:</b>	C <sub>34</sub> H <sub>56</sub> N <sub>10</sub> O <sub>9</sub>
<b>Molecular Weight:</b>	748.87
<b>Sequence:</b>	Ser-Phe-Leu-Leu-Arg-Asn
<b>Sequence Shortening:</b>	SFLLRN
<b>Target:</b>	Protease Activated Receptor (PAR)
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	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

<b>In Vitro</b>	H <sub>2</sub> O : 25 mg/mL (33.38 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		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

<b>Description</b>	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 <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	PAR1 96 nM (IC <sub>50</sub> )	PAR1
<b>In Vitro</b>	TRAP-6 (0.01-10 μM) triggers calcium mobilization in Xenopus oocytes heterologously expressing PAR1 <sup>[1]</sup> . TRAP-6 (0.01-10 μM; 30 min) activates human platelets <sup>[1]</sup> . TRAP-6 (100 μM) does not cause the platelets of rabbits or rats to change shape, aggregate, release granule contents, or form thromboxane <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
<b>In Vivo</b>	TRAP (1 mg/kg; i.v.) produces a biphasic response in blood pressure in inactin-anesthetized rats <sup>[3]</sup> .	

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

## CUSTOMER VALIDATION

- J Thromb Haemost. 2024 Jan 22;S1538-7836(24)00041-2.
- Phytomedicine. 12 June 2022, 154271.
- Thromb Res. 2024 Feb, 234, Pages 39-50.
- 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.

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

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