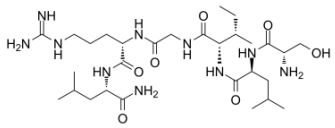
SLIGRL-NH2

Cat. No.:	HY-P1308
CAS No.:	171436-38-7
Molecular Formula:	$C_{29}H_{56}N_{10}O_7$
Molecular Weight:	656.82
Sequence:	Ser-Leu-Ile-Gly-Arg-Leu-NH2
Sequence Shortening:	SLIGRL-NH2
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 : 110 mg/mL (167.47 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.5225 mL	7.6124 mL	15.2249 mL
	5 mM	0.3045 mL	1.5225 mL	3.0450 mL
	10 mM	0.1522 mL	0.7612 mL	1.5225 mL

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

BIOLOGICAL ACTIVITY

Description

SLIGRL-NH2 (Protease-Activated Receptor-2 Activating Peptide) is an agonist of Protease-Activated Receptor-2 (PAR-2)[1].

IC_{50} & Target

PAR-2[1]

In Vitro

SLIGRL-NH2 is an agonist of PAR-2 and MrgprC11[1]. SLIGRL-NH2 causes an L-NAME-inhibited relaxation. Based on SLIGRL-NH_2 causing a concentration-dependent relaxation with an EC_{50} of 10 μM in endothelium-free preparations in the presence of perivascular adipose tissue (PVAT) , 20 μM is used as a suitable 'test' concentration of peptide in subsequent experiments designed to evaluate the effects of potential inhibitors of ADRF release/action. In the endothelium-free aorta preparations, SLIGRL-NH2 causes a concentration-dependent relaxation in preparations only in the presence of PVAT [+PVAT, -ENDO (endothelium)][2].

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

REFERENCES

[1]. Akiyama T, et al. Behavioral model of itch, alloknesis, pain and allodynia in the lower hindlimb and correlativeresponses of lumbar dorsal horn neurons in the mouse. Neuroscience. 2014 Apr 25;266:38-46.

[2]. Li Y, et al. Perivascular adipose tissue-derived relaxing factors: release by peptide agonists via proteinase-activated receptor-2 (PAR2) and non-PAR2 mechanisms. Br J Pharmacol. 2011 Dec;164(8):1990-2002.

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