SLIGRL-NH2

®

MedChemExpress

Cat. No.:	HY-P1308				
CAS No.:	171436-38-7				
Molecular Formula:	C ₂₉ H ₅₆ N ₁₀ O ₇	NH H Q TO			
Molecular Weight:	656.82				
Sequence:	Ser-Leu-Ile-Gly-Arg-Leu-NH2				
Sequence Shortening:	o SLIGRL-NH2				
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	2 0, 1	H ₂ O : 110 mg/mL (167.47 mM; Need ultrasonic) DMSO : 100 mg/mL (152.25 mM; Need ultrasonic)						
		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	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 so	lubility information to select the app	propriate solvent.					
In Vivo	Solubility: 100 mg	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (152.25 mM); Clear solution; Need ultrasonic						
		 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.81 mM); Clear solution 						
		3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.81 mM); Clear solution						
		4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.81 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description

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

Product Data Sheet

IC ₅₀ & Target	PAR2
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.

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

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