VKGILS-NH2

Cat. No.: HY-P1310

CAS No.: 942413-05-0

Molecular Formula: $C_{28}H_{54}N_8O_7$

Molecular Weight: 614.78

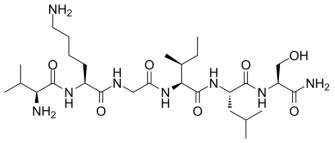
Sequence: Val-Lys-Gly-Ile-Leu-Ser-NH2

Sequence Shortening: VKGILS-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

DMSO : 100 mg/mL (162.66 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6266 mL	8.1330 mL	16.2660 mL
	5 mM	0.3253 mL	1.6266 mL	3.2532 mL
	10 mM	0.1627 mL	0.8133 mL	1.6266 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (4.07 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.07 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

VKGILS-NH2 is a reversed amino acid sequence control peptide for SLIGKV-NH2 (protease-activated receptor 2 (PAR2) agonist). VKGILS-NH2 has no effect on DNA synthesis in cells[1][2].

REFERENCES

[1]. M Tognetto, et al. Evidence That PAR-1 and PAR-2 Mediate Prostanoid-Dependent Contraction in Isolated Guinea-Pig Gallbladder. Br J Pharmacol. 2000 Oct;131(4):689-94.

[2]. David A Vesey, et al. Proinflammatory and Proliferative Responses of Human Proximal Tubule Cells to PAR-2 Activation. Am J Physiol Renal Physiol. 2007 Nov;293(5):F1441-9.

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