KRpep-2d

Cat. No.:	HY-P3277
CAS No.:	2098181-84-9
Molecular Formula:	$C_{108}H_{182}N_{44}O_{25}S_2$
Molecular Weight:	2561.02
Sequence Shortening:	Ac-RRRRCPLYISYDPVCRRRR-NH2 (disulfide bridge: Cys5-Cys15)
Target:	Ras
Pathway:	GPCR/G Protein; MAPK/ERK Pathway
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

Ac-RRRRCPLYISYDPVCRRRR-NH_2
(disulfide bridge: Cys_5-Cys_{15})

SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (19.52 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	0.3905 mL	1.9523 mL	3.9047 mL
5 mM	0.0781 mL	0.3905 mL	0.7809 mL
10 mM	0.0390 mL	0.1952 mL	0.3905 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 50 mg/mL (19.52 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

KRpep-2d is a potent K-Ras inhibitor and inhibits proliferation of K-Ras-driven cancer cells. KRpep-2d can be used for cancer research[1].

IC_{50} & Target

K-RAS

In Vitro

KRpep-2d has cyclic structure with importance for K-Ras inhibitory activity. $Leu^7$7 , Ile^9 and Asp^{12} are critical amino acid residues for the K-Ras inhibitory activity of KRpep-2d[1].

KRpep-2d (10-30 μM) has inhibitory activity of A427 cells with the proliferation rates of 68.3% (10 μM) and 48.3% (10 μM)[1].

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

REFERENCES

[1]. Niida A, et al. Investigation of the structural requirements of K-Ras(G12D) selective inhibitory peptide KRpep-2d using alanine scans and cysteine bridging. Bioorg Med Chem Lett. 2017 Jun 15;27(12):2757-2761.

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