## KRpep-2d

Cat. No.:	HY-P3277				
CAS No.:	2098181-84-9				
Molecular Formula:	C <sub>108</sub> H <sub>182</sub> N <sub>44</sub> O <sub>25</sub> S <sub>2</sub>				
Molecular Weight:	2561.02 Ac-RRRRCPLYISYDPVCRRRR-NH <sub>2</sub>				
Sequence Shortening:	(disulfide bridge: Cys <sub>5</sub> -Cys <sub>15</sub> ) Ac-RRRRCPLYISYDPVCRRRR-NH2 (disulfide bridge: Cys5-Cys15)				
Target:	Ras				
Pathway:	GPCR/G Protein				
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)				

## SOLVENT & SOLUBILITY

	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	e refer to the solu	Ibility information to select the app	propriate solvent.		
		,	propriate solvent.		
	d each solvent o lubility: 50 mg/m	ne by one: PBS nL (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 <sup>[1]</sup> .		
IC <sub>50</sub> & Target	K-RAS		
In Vitro	KRpep-2d has cyclic structure with importance for K-Ras inhibitory activity. Leu <sup>7</sup> 7 , Ile <sup>9</sup> and Asp <sup>12</sup> are critical amino acid residues for the K-Ras inhibitory activity of KRpep-2d <sup>[1]</sup> . 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) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

Product Data Sheet



## 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.

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

 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