KRpep-2d TFA

Cat. No.: HY-P3277A

Molecular Formula: $C_{110}H_{183}F_3N_{44}O_{27}S_2$

Molecular Weight: 2675.03

Sequence Shortening: Ac-RRRRCPLYISYDPVCRRRR-NH2 (disulfide bridge: Cys5-Cys15)

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

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

In Vitro

H_2O : 100 mg/mL (37.38 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.3738 mL	1.8691 mL	3.7383 mL
	5 mM	0.0748 mL	0.3738 mL	0.7477 mL
	10 mM	0.0374 mL	0.1869 mL	0.3738 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 (18.69 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

KRpep-2d (TFA) 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 (TFA) 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 (TFA) (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.

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

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