Product Data Sheet

cyclo(RLsKDK) TFA

Cat. No.: HY-P1676A Molecular Formula: $C_{33}H_{58}F_3N_{11}O_{11}$

Molecular Weight: 841.88

Sequence: Cyclo(Arg-Leu-{d-Ser}-Lys-Asp-Lys)

Sequence Shortening: Cyclo(RL-{d-Ser}-KDK)

Target: MMP

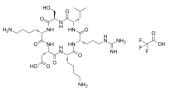
Pathway: Metabolic Enzyme/Protease

Sealed storage, away from moisture and light, under nitrogen Storage:

> 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

H₂O: 100 mg/mL (118.78 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.1878 mL	5.9391 mL	11.8782 mL
	5 mM	0.2376 mL	1.1878 mL	2.3756 mL
	10 mM	0.1188 mL	0.5939 mL	1.1878 mL

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

BIOLOGICAL ACTIVITY

Description $cyclo(RLsKDK) \ (TFA) \ (BK-1361 \ (TFA)) \ is \ a \ specific \ inhibitor \ of \ metalloprotein as e \ ADAM8 \ with \ an \ IC_{50} \ value \ of \ 182 \ nM.$

cyclo(RLsKDK) (TFA) has potential applications in inflammatory diseases and cancer^[1].

In Vitro cyclo(RLsKDK) (TFA) promotes ADAM8 activation and CD23 shedding with IC50 values of 120 nM and 182 nM, respectively^[2].

cyclo(RLsKDK) (TFA) (200 nM; 0-120 h) increases activity of pro-ADAM8^[2].

cyclo(RLsKDK) (TFA) (200 nM and 500 nM; 12 h) promotes the growth of Panc1_ctrl and Panc1_A8 cells^[2].

cyclo(RLsKDK) (TFA) (500 nM) causes ERK1/2 phosphorylation in Panc1_ctrl and Panc1_A8 cells^[2].

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

Cell Invasion Assay^[2]

Cell Line:	Panc1_A8 cells.
Concentration:	10, 100 and 1,000 nM.

	Incubation Time:	6 h.	
	Result:	Reduced cell invasion with dose-dependent manner.	
In Vivo	Panc1_ctrl or Panc1_A8 mice, reduces soluble Al mice ^[2] .	cyclo(RLsKDK) (TFA) (10 μg/g; i.p.; once weekly for 4 weeks) significantly reduces tumour load in mice which implant Panc1_ctrl or Panc1_A8 cells. cyclo(RLsKDK) (TFA) improves the survival rate of pancreatic ductal adenocarcinoma (PDA mice, reduces soluble ADAM8 (sADAM8) content, pERK1/2 activation, and PDAC metastasis in the liver and lungs of PDAC mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Yim V, et al. Synthesis and biological evaluation of analogues of the potent ADAM8 inhibitor cyclo(RLsKDK) for the treatment of inflammatory diseases and cancer metastasis. Bioorg Med Chem. 2016 Sep 15;24(18):4032-4037.

[2]. Schlomann U, et al. ADAM8 as a drug target in pancreatic cancer. Nat Commun. 2015 Jan 28;6:6175.

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

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