Super-TDU (1-31) (TFA)

Cat. No.: HY-P1728A

Molecular Formula: $C_{141}H_{218}N_{40}O_{48}.C_2HF_3O_2$

Molecular Weight: 3355.5

Sequence Shortening: SVDDHFAKSLGDTWLQIGGSGNPKTANVPQT

SVDDHFAKSLGDTWLQIGGSGNPKTANVPQT (TFA salt)

Target: YAP

Pathway: Stem Cell/Wnt

Storage: Sealed storage, away from moisture and light

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)

SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (14.90 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	0.2980 mL	1.4901 mL	2.9802 mL
5 mM	0.0596 mL	0.2980 mL	0.5960 mL
10 mM	0.0298 mL	0.1490 mL	0.2980 mL

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

BIOLOGICAL ACTIVITY

Description

Super-TDU (1-31) TFA is a peptide fragment of Super-TDU. Super-TDU (1-31) TFA is an inhibitor of YAP-TEAD complex. Super-TDU TFA shows potent anti-tumor activity and suppresses tumor growth in gastric cancer mouse model[1][2].

In Vitro

Super-TDU (1-31) TFA (50 nM; 24-72 hours) can largely compromise the increased cell viability induced by ACTN1 in Huh-7 or LM3 cells proliferation[1].

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

Cell Viability Assay[2]

Cell Line:	Liver cancer cell lines of human, including Huh-7, LM3 cells
Concentration:	50 nM
Incubation Time:	24, 48 and 72 h
Result:	Could largely compromise the increased cell viability induced by ACTN1.

CUSTOMER VALIDATION

- J Biomater Tiss Eng. 2020, 10(5):647-653.

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REFERENCES

[1]. Qian Chen, et al. ACTN1 supports tumor growth by inhibiting Hippo signaling in hepatocellular carcinoma. J Exp Clin Cancer Res. 2021 Jan 7;40(1):23.

[2]. Jiao S, et al. A peptide mimicking VGLL4 function acts as a YAP antagonist therapy against gastric cancer. Cancer Cell. 2014 Feb 10;25(2):166-80.

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