SOR-C13 TFA

Cat. No.: HY-P1651A

Molecular Formula: $C_{74}H_{117}F_3N_{20}O_{21}$

Molecular Weight: 1679.84

Sequence: Lys-Glu-Phe-Leu-His-Pro-Ser-Lys-Val-Asp-Leu-Pro-Arg

Sequence Shortening: KEFLHPSKVDLPR

KEFLHPSKVDLPR (TFA salt)

Target: TRP Channel

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

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 : 100 mg/mL (59.53 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.5953 mL	2.9765 mL	5.9529 mL
	5 mM	0.1191 mL	0.5953 mL	1.1906 mL
	10 mM	0.0595 mL	0.2976 mL	0.5953 mL

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

BIOLOGICAL ACTIVITY

Description

SOR-C13 TFA, a carboxy-terminal truncated peptide, is a high-affinity TRPV6 antagonist with an IC_{50} value of 14 nM. TRPV6 is a non-voltage gated calcium channel that is associated with malignancy and poor prognosis in breast cancer. SOR-C13 TFA has anticancer activity[1].

IC_{50} & Target

TRPV6

14 nM (IC_{50})

In Vivo

SOR-C13 (i.p.; 400,600, 800 mg/kg; daily; on days 1 to 12) TFA can effectively inhibit the growth of tumor in female NOD/SCID mice with SKOV-3 cell[2].

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

Animal Model:	Female NOD/SCID mice with SKOV-3 cell[2]

Dosage:	400, 600, 800 mg/kg
Administration:	IP; daily; on days 1 to 12
Result:	Effectively inhibited the growth of tumor.

REFERENCES

[1]. S Fu , et al. Erratum to: First-in-human phase I study of SOR-C13, a TRPV6 calcium channel inhibitor, in patients with advanced solid tumors. Invest New Drugs. 2017 Jun;35(3):397.

[2]. Hui Xue, et al. Inhibition of Transient Receptor Potential Vanilloid 6 channel, elevated in human ovarian cancers, reduces tumour growth in a xenograft model. J Cancer. 2018 Aug 6;9(17):3196-3207.

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