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Lieferung & Zahlungsart

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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
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Fz7-21

Cat. No.:	HY-P1454
CAS No.:	2247635-23-8
Molecular Formula:	$C_{83}H_{114}N_{18}O_{23}S_2$
Molecular Weight:	1796.05
Sequence Shortening:	Ac-LPSDDLEFWCHVMY-NH2
Target:	Wnt
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)

Ac-LPSDDLEFWCHVMY-NH_2

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (55.68 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.5568 mL	2.7839 mL	5.5678 mL
	5 mM	0.1114 mL	0.5568 mL	1.1136 mL
	10 mM	0.0557 mL	0.2784 mL	0.5568 mL

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

BIOLOGICAL ACTIVITY

Description

Fz7-21 (Ac-LPSDDLEFWCHVMY-NH2) is a potent peptide antagonist of FZD7 receptors , selectively binds to FZD7 CRD subclass and alters the conformation of the CRD and the architecture of its lipid-binding groove. The EC_{50} values are 58 and 34 nM for human and mouse FZD7 CRD, respectively. Fz7-21 impairs the function of FZD7 in Wnt–β-catenin signalling and stem cell function in intestinal organoids[1][2].

IC_{50} & Target

EC50: 58 nM (human FZD7 CRD), 34 nM (mouse FZD7 CRD)[1]

In Vitro

Fz7-21 (Ac-LPSDDLEFWCHVMY-NH2) (0-100μM; 6 h; HEK293-TB cells) impairs Wnt signaling with IC_{50} value of 100?nM[1].

Fz7-21 (Ac-LPSDDLEFWCHVMY-NH2) (1?μM) blocks WNT3A-mediated stabilization of β-catenin in mouse L cells with IC_{50} value of 50?nM[1].

Fz7-21 (Ac-LPSDDLEFWCHVMY-NH2) (200 μM; 48 h; LGR5–GFP$^+$ stem cells) disrupts LGR^{5+} stem cell function[1].

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

CUSTOMER VALIDATION

- Cell Prolif. 2023 Mar 27;e13460.
- Cell Mol Life Sci. 2022 Sep 19;79(10):523.
- Stem Cell Res Ther. 2023 Oct 26;14(1):305.

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REFERENCES

[1]. Nile AH, et, al. A selective peptide inhibitor of Frizzled 7 receptors disrupts intestinal stem cells. Nat Chem Biol. 2018 Jun;14(6):582-590.

[2]. Larasati Y, et, al. Unlocking the Wnt pathway: Therapeutic potential of selective targeting FZD7 in cancer. Drug Discov Today. 2022 Mar;27(3):777-792.

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