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## DATASHEET

Fz7-21

### Product overview

<b>Name</b>	Fz7-21
<b>Cat No</b>	HB8797
<b>Biological description</b>	Selective FZD7 (Frizzled 7 receptor) antagonist which binds to the FZD7 extracellular cysteine rich domain (CRD) to alter its conformation and lipid-binding groove architecture. Inhibits Wnt- $\beta$ -catenin signaling in HEK293 cells stimulated with exogenous WNT3A ( $IC_{50}$ = 100 nM) and blocks WNT3A-mediated $\beta$ -catenin stabilization in mouse L cells ( $IC_{50}$ = 50 nM). Impairs Wnt signaling in cultured cells and disrupts stem cell function in intestinal organoids.
<b>Biological action</b>	Antagonist
<b>Purity</b>	>95%
<b>Description</b>	Selective FZD7 (Frizzled 7 receptor) antagonist

### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Molecular Weight</b>	1796.05
<b>Molecular Formula</b>	$C_{83}H_{114}N_{18}O_{23}S_2$
<b>Sequence (one letter)</b>	Ac-LPSDDLEFWCHVMY-NH <sub>2</sub>
<b>Sequence (three letter)</b>	Ac-Leu-Pro-Ser-Asp-Asp-Leu-Glu-Phe-Trp-Cys-His-Val- Met-Tyr-NH <sub>2</sub>
<b>CAS Number</b>	2247635-23-8
<b>PubChem identifier</b>	155977635
<b>InChiKey</b>	IAZGQQUTTRFISH-AXEDDYHBSA-N

### References

#### A selective peptide inhibitor of Frizzled 7 receptors disrupts intestinal stem cells

Nile AH *et al* (2018) Nat Chem Biol 14(6)

**PubMedID** [29632413](#)