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DATASHEET

Fz7-21

Product overview

Name	Fz7-21
Cat No	HB8797
Biological description	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- β -catenin signaling in HEK293 cells stimulated with exogenous WNT3A ($IC_{50} = 100$ nM) and blocks WNT3A-mediated β -catenin stabilization in mouse L cells ($IC_{50} = 50$ nM). Impairs Wnt signaling in cultured cells and disrupts stem cell function in intestinal organoids.
Biological action	Antagonist
Purity	>95%
Description	Selective FZD7 (Frizzled 7 receptor) antagonist

Solubility & Handling

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

Chemical Data

Molecular Weight	1796.05
Molecular Formula	C ₈₃ H ₁₁₄ N ₁₈ O ₂₃ S ₂
Sequence (one letter)	Ac-LPSDDLEFWCHVMY-NH2
Sequence (three letter)	Ac-Leu-Pro-Ser-Asp-Asp-Leu-Glu-Phe-Trp-Cys-His-Val-Met-Tyr-NH2
CAS Number	2247635-23-8
PubChem identifier	155977635
InChiKey	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](#)