Proteins



RXFP2 agonist 2

Cat. No.: HY-150186 CAS No.: 2971704-85-3 Molecular Formula: $C_{29}H_{19}F_{9}IN_{3}O_{5}$

Molecular Weight: 787.37

Target: **RXFP Receptor** Pathway: GPCR/G Protein

Storage: Please store the product under the recommended conditions in the Certificate of

BIOLOGICAL ACTIVITY

Description RXFP2 agonist 2 is a selective Morally active and allosteric RXFP2 agonist with an EC₅₀ value of 0.38 μM. RXFP2 agonist 2 induces osteoblast mineralization. RXFP2 agonist 2 increases bone formation in female mice. RXFP2 agonist 2 has the potential for the research of osteoporosis [1].

IC₅₀ & Target EC₅₀: 0.38 μM (RXFP2)^[1]

In Vitro RXFP2 agonist 2 (Compound 6641) (1, 3, 5 μ M; 14 days) induces osteoblast mineralization at 3 and 5 μ M with no cytotoxicity

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

Cell Cytotoxicity Assay^[1]

Cell Line:	HCO cells
Concentration:	0-100 μΜ
Incubation Time:	14 days
Result:	Induced mineralization of primary human osteoblasts and is non-cytotoxic.

In Vivo

RXFP2 agonist 2 (10 mg/kg; p.o.; 3 times per week for 8 weeks) promotes bone formation in female mice^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	8-week-old WT C57BL/6 J female mice $^{[1]}$
Dosage:	3 mg/kg for i.v.; 10 mg/kg for p.o.
Administration:	l.v. or p.o.
Result:	Exhibited a half-life of between 4-6.5 h depending on the route of administration, with no accumulation at 10 mg/kg, and oral bioavailability around 25-31%.
Animal Model:	8-week-old WT C57BL/6 J female mice ^[1]

Dosage:	10 mg/kg
Administration:	P.o.; 3 times per week for 8 weeks
Result:	Increased bone formation in mouse with significantly increased in Tb.N and Tb.Th, and increased BV/TV and decreased Tb.Sp.

REFERENCES

[1]. Esteban-Lopez M, et al. Discovery of small molecule agonists of the Relaxin Family Peptide Receptor 2. Commun Biol. 2022 Nov 4;5(1):1183.

Caution: Product has not been fully validated for medical applications. For research use only.

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Page 2 of 2 www.MedChemExpress.com