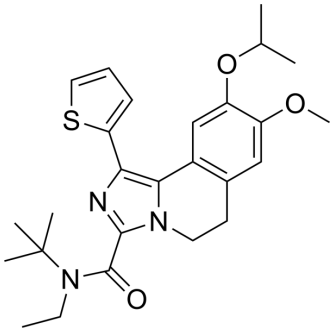
FSHR agonist 1

Cat. No.:	HY-150210
CAS No.:	1256776-89-2
Molecular Formula:	$C_{26}H_{33}N_3O_3S$
Molecular Weight:	467.62
Target:	Estrogen Receptor/ERR
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (106.92 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1385 mL	10.6924 mL	21.3849 mL
	5 mM	0.4277 mL	2.1385 mL	4.2770 mL
	10 mM	0.2138 mL	1.0692 mL	2.1385 mL

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

BIOLOGICAL ACTIVITY

Description

FSHR agonist 1 is a high affinity and allosteric follicle stimulating hormone receptor (FSHR) agonist with a pEC_{50} of 7.72. FSHR agonist 1 formes extensive interactions with the TMD to directly activate FSHR[1].

IC_{50} & Target

pEC50: 7.72 (FSHR)[1]

In Vitro

The binding of FSHR agonist 1 (compound 21f) to the FSHR TMD pocket induces inward movements of TM6 and TM7, which directly results in FSHR activation[1].

FSHR agonist 1 (compound 21f) can activate FSHR, LHCGR and TSHR with highly potency and efficacy, while the activation potency for FSHR is more than 10-fold higher than LHCGR (pEC_{50} of 6.26) and TSHR (pEC_{50} of 6.48)[1].

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

REFERENCES

[1]. Jia Duan, et al. Universal mechanism of hormone and allosteric agonist mediated activation of glycoprotein hormone receptors as revealed by structures of follicle stimulating hormone receptor. biorxiv. August 01, 2022.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA