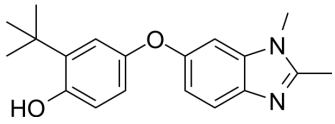
DS20362725

Cat. No.:	HY-143201
CAS No.:	2735803-20-8
Molecular Formula:	$C_{19}H_{22}N_2O_2$
Molecular Weight:	310.39
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 : 10 mg/mL (32.22 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2218 mL	16.1088 mL	32.2175 mL
	5 mM	0.6444 mL	3.2218 mL	6.4435 mL
	10 mM	0.3222 mL	1.6109 mL	3.2218 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1 mg/mL (3.22 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1 mg/mL (3.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DS20362725 is an estrogen-related receptor α (ERRα) agonist. DS20362725 inhibits the binding between receptor-interacting protein 140 (RIP140) corepressor peptide (10 nM) and GST-ERRα ligand-binding domain (LBD; 1.2 μM) with an IC_{50} value of 0.6 μM. DS20362725 can be used for the research of metabolic disorders, including type 2 diabetes mellitus (T2DM)[1].

IC_{50} & Target

ERRα

In Vitro

DS20362725 (compound 3d; 0.002, 0.006, 0.017, 0.051, 0.015, 0.046, 1.4, 4.2, 12.5 μg/mL; 18 h) activates the transcriptional activity of full-length ERRα in MG63 cells with an EC_{50} of 1.1 μM[1].

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

REFERENCES

[1]. Shinozuka T, et al. Discovery of a Novel Class of ERRα Agonists. ACS Med Chem Lett. 2021 Apr 21;12(5):817-821.

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