YCT529

Cat. No.: HY-153122A

CAS No.: 2863670-67-9

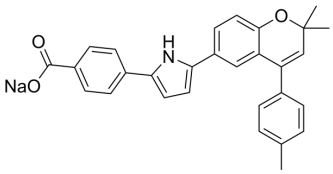
Molecular Formula: $C_{29}H_{24}NNaO_3$

Molecular Weight: 457.5

Target: RAR/RXR

Pathway: Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (109.29 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1858 mL	10.9290 mL	21.8579 mL
5 mM	0.4372 mL	2.1858 mL	4.3716 mL
10 mM	0.2186 mL	1.0929 mL	2.1858 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: 2.5 mg/mL (5.46 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (5.46 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (5.46 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

YCT529 is a potent, selective and orally active RAR-α inhibitor[1].

IC_{50} & Target

RAR-α[1]

In Vivo

When given orally to male mice for 4 weeks, YCT529 dramatically reduces sperm counts and is 99% effective in preventing pregnancy, without any observable side effects. The mice could father pups again 4-6 weeks after they stopped receiving the compound[1].

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

REFERENCES

[1]. American Chemical Society. 2022.

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

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