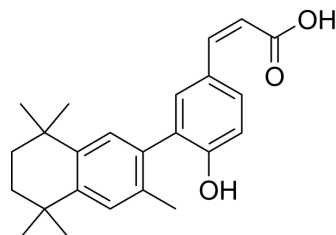


CD3254

Cat. No.:	HY-107399		
CAS No.:	196961-43-0		
Molecular Formula:	C ₂₄ H ₂₈ O ₃		
Molecular Weight:	364.48		
Target:	RAR/RXR		
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (342.95 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.7436 mL	13.7182 mL	27.4363 mL
5 mM	0.5487 mL	2.7436 mL	5.4873 mL
10 mM	0.2744 mL	1.3718 mL	2.7436 mL

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

BIOLOGICAL ACTIVITY

Description

CD3254 a potent and selective retinoid-X-receptor (RXR) agonist^[1].

In Vitro

CD3254 induces similar phenotypes of malformations after 5 days exposure at low concentration (20 µg/L) to those after the 1st d exposure at high concentrations (50 and 100 µg/L)^[1].

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

Cell Viability Assay^[1]

Cell Line: zebrafish (Danio rerio) embryos

Concentration: 10, 20, 50, 100 µg/L

Incubation Time:

Result: The percent of survival decreased by 19.1 % in 100 µg/L CD3254-treated group after the 1st day exposure. The embryos did not hatch in groups exposed to 100 µg/L CD3254 for 5 days or to 1 mg/L CD3254 for the 1st day.

CUSTOMER VALIDATION

- Cell Res. 2022 Jun;32(6):513-529.
- Nat Commun. 2023 Sep 2;14(1):5351.
- Oxid Med Cell Longev. 2021 Feb 10;2021:8253742.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Nahoum V, et al. Modulators of the structural dynamics of the retinoid X receptor to reveal receptor function. Proc Natl Acad Sci U S A. 2007 Oct 30;104(44):17323-8.

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

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