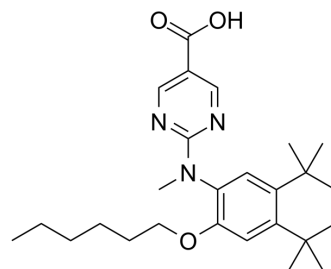


PA452

Cat. No.:	HY-108522		
CAS No.:	457657-34-0		
Molecular Formula:	C ₂₆ H ₃₇ N ₃ O ₃		
Molecular Weight:	439.59		
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	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 40 mg/mL (90.99 mM; Need ultrasonic and warming)
Ethanol : 4.4 mg/mL (10.01 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.2748 mL	11.3742 mL	22.7485 mL
	5 mM	0.4550 mL	2.2748 mL	4.5497 mL
	10 mM	0.2275 mL	1.1374 mL	2.2748 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.69 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.69 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PA452, retinoic X receptor (RXR) specific antagonist, inhibits the effect of Retinoic acid (RA) on Th1/Th2 development^[1].

In Vitro

PA452 inhibits the Troglitazone (TZ)-induced CK13 expression^[2].
PA452 (0.01, 0.1, and 1 μM) inhibits RXR in normal human urothelial (NHU) cells^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

-
- Oxid Med Cell Longev. 2021 Feb 10;2021:8253742.

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REFERENCES

[1]. Iwata M, et al. Retinoic acids exert direct effects on T cells to suppress Th1 development and enhance Th2 development via retinoic acid receptors. Int Immunol. 2003 Aug;15(8):1017-25.

[2]. Varley CL, et al. Activation of peroxisome proliferator-activated receptor-gamma reverses squamous metaplasia and induces transitional differentiation in normal human urothelial cells. Am J Pathol. 2004 May;164(5):1789-98.

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

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