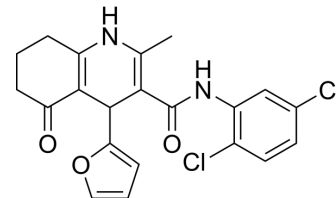


AR420626

Cat. No.:	HY-116522		
CAS No.:	1798310-55-0		
Molecular Formula:	C ₂₁ H ₁₈ Cl ₂ N ₂ O ₃		
Molecular Weight:	417.29		
Target:	Free Fatty Acid Receptor		
Pathway:	GPCR/G Protein		
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 : 20 mg/mL (47.93 mM); ultrasonic and warming and heat to 60°C

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.3964 mL	11.9821 mL	23.9641 mL
5 mM	0.4793 mL	2.3964 mL	4.7928 mL
10 mM	0.2396 mL	1.1982 mL	2.3964 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2 mg/mL (4.79 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2 mg/mL (4.79 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AR420626 is a selective agonist of free fatty acid receptor 3 (FFAR3, GPR41) with IC₅₀ of 117 nM. AR420626 inhibits nicotine and serotonin-induced changes in motility of isolated muscle strips from rat colon and suppresses serotonin-induced fecal output in rats^[1].

CUSTOMER VALIDATION

- J Anim Sci Biotechnol. 2023 Aug 5;14(1):111.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Kaji I, et al. Free fatty acid receptor 3 activation suppresses neurogenic motility in rat proximal colon. *Neurogastroenterol Motil.* 2018 Jan;30(1):10.1111/nmo.13157.

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

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