CIAC001

MedChemExpress

Cat. No.:	HY-155850	
CAS No.:	2649154-82-3	🔶 ОН
Molecular Formula:	$C_{20}H_{25}N_{3}O_{2}$	
Molecular Weight:	339.43	ur'
Target:	Pyruvate Kinase	1 HO
Pathway:	Metabolic Enzyme/Protease	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Product Data Sheet

BIOLOGICAL ACTIV		
Description	CIAC001 is a Pyruvate Kinase PKM2 inhibitor with anti-neuroinflammatory activity. CIAC001 inhibits LPS-induced proinflammatory nitric oxide (NO) production and protects immunologically active BV-2 cells (IC ₅₀ =2.5 µM). CIAC001 also has anti-neuroinflammation in mouse models and inhibits chronic morphine-induced addiction ^[1] .	
IC ₅₀ & Target	PKM2 ^[1]	
In Vitro	CIAC001 (10 μM; 6 h) inhibits LPS (200 ng/mL)-induced microglia morphology change in BV-2 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	CIAC001 (20 µg/kg, and 0.2 mg/kg, i.p, once daily for 7 days) dose-dependently attenuates Naloxone (HY-137279, opioid receptor antagonist) precipitated withdrawal jumps and significantly inhibits the development of morphine-induced behavioral sensitization during the induction period, in morphine-dependent mice ^[1] . CIAC001 (20 mg/kg, i.p, once daily for 7 days)has no apparent potential for memory decline or cognitive impairment in mice Y maze test ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Jin S, et al. Cannabidiol Analogue CIAC001 for the Treatment of Morphine-Induced Addiction by Targeting PKM2. J Med Chem. 2023 Aug 24;66(16):11498-11516.

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

Tel: 609-228-6898

-6898 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA