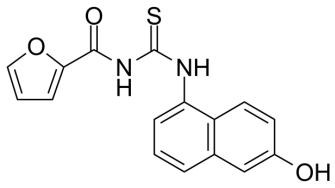
5J-4

Cat. No.:	HY-110216
CAS No.:	827001-82-1
Molecular Formula:	$C_{16}H_{12}N_2O_3S$
Molecular Weight:	312.34
Target:	CRAC Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description

5J-4 is a potent CRAC inhibitor. 5J-4 decreases the numbers of infiltrated mononuclear cell into the CNS, and significantly decreases the population of infiltrated CD4+ population. 5J-4 reduces the symptoms and delayed the onset of EAE (experimental autoimmune encephalomyelitis) in mouse model of inflammation[1].

In Vivo

5J-4 reduces the production of IL-17 and decreases the expression of RORα and RORγt[1].

5J-4 (2 mg/kg; i.p.; every alternate day for 30 days) reduces the symptoms and delayed the onset of EAE[1].

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

Animal Model:	C57BL/6 mice (MOG35-55 peptide-immunized mice)[1]
Dosage:	2 m/kg
Administration:	I.p., every alternate day for 30 days
Result:	Dramatically reduced the symptoms and delayed the onset of EAE and decreased the numbers of infiltrated mononuclear cell into the CNS, and significantly decreased the population of infiltrated CD4+ population.

REFERENCES

[1]. Kim KD, et al. Calcium signaling via Orai1 is essential for induction of the nuclear orphan receptor pathway to drive Th17 differentiation. J Immunol. 2014 Jan 1;192(1):110-22.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA