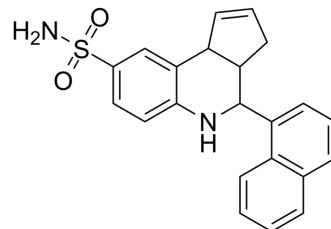


TQS

Cat. No.:	HY-107682		
CAS No.:	353483-92-8		
Molecular Formula:	C ₂₂ H ₂₀ N ₂ O ₂ S		
Molecular Weight:	376.47		
Target:	nAChR		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
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 : 250 mg/mL (664.06 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.6563 mL	13.2813 mL	26.5625 mL
	5 mM	0.5313 mL	2.6563 mL	5.3125 mL
	10 mM	0.2656 mL	1.3281 mL	2.6563 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 10.42 mg/mL (27.68 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.53 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	TQS is a $\alpha 7$ nicotinic acetylcholine receptor (nAChR) positive allosteric modulator. TQS can be used for the research of neuroinflammatory pain ^[1] .
IC₅₀ & Target	nAChR ^[1]
In Vivo	TQS (1 or 4 mg/kg; i.p.) reduces the expression of LPS-induced I κ B mRNA, CD11b mRNA and regulates microglial morphological changes in the hippocampus ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male C57BL/6J mice ^[1]
Dosage:	1 or 4 mg/kg
Administration:	I.p.
Result:	Reduced the expression of LPS-induced I κ B mRNA, CD11b mRNA and regulated microglial morphological changes in the hippocampus.

REFERENCES

[1]. Abbas M, et al. The α 7 nicotinic acetylcholine receptor positive allosteric modulator attenuates lipopolysaccharide-induced activation of hippocampal I κ B and CD11b gene expression in mice. *Drug Discov Ther.* 2017;11(4):206-211.

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