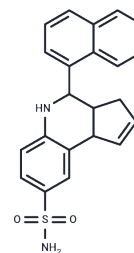


## TQS

## Chemical Properties

CAS No. :	353483-92-8
Formula:	C <sub>22</sub> H <sub>20</sub> N <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	376.47
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	TQS (4-Naphthalen-1-yl-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide) is a positive allosteric modulator of $\alpha 7$ nACh receptors.
Targets(IC <sub>50</sub> )	AChR
In vivo	TQS reduces LPS-induced I $\kappa$ B and CD11b gene expression and microglial activation associated with hyperalgesia and allodynia by targeting microglial $\alpha 7$ nAChR in the hippocampus[1].

## Solubility Information

Solubility	DMSO: 240 mg/mL (637.5 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (13.28 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.0531 mL	0.2656 mL	0.5313 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Muzaffar A , Sami A , Papke R L , et al. The  $\alpha 7$  nicotinic acetylcholine receptor positive allosteric modulator attenuates lipopolysaccharide-induced activation of hippocampal I $\kappa$ B and CD11b gene expression in mice[J]. Drug Discoveries & Therapeutics, 2017, 11(4):206-211.

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