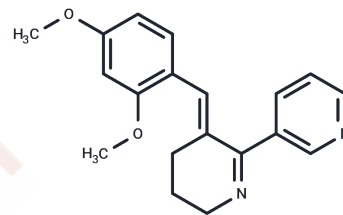


GTS-21

## Chemical Properties

CAS No. : 148372-04-7  
 Formula: C<sub>19</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight: 308.37  
 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	GTS-21 (DMXB-A) is an $\alpha 7$ nAChR agonist. GTS-21 suppresses inflammation associated with rheumatoid arthritis by inhibiting RA Th1 cell differentiation.
Targets(IC50)	5-HT Receptor, AChR

## Solubility Information

Solubility	DMSO: Soluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2429 mL	16.2143 mL	32.4286 mL
5 mM	0.6486 mL	3.2429 mL	6.4857 mL
10 mM	0.3243 mL	1.6214 mL	3.2429 mL
50 mM	0.0649 mL	0.3243 mL	0.6486 mL

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

Yue Y, et al. GTS-21 attenuates lipopolysaccharide-induced inflammatory cytokine production in vitro by modulating the Akt and NF- $\kappa$ B signaling pathway through the  $\alpha$ 7 nicotinic acetylcholine receptor. *Int Immunopharmacol.* 2015 Dec;29(2):504-512.

Kong FJ, et al. Alpha 7 nicotinic acetylcholine receptor agonist GTS-21 mitigates isoflurane-induced cognitive impairment in aged rats. *J Surg Res.* 2015 Mar;194(1):255-61.

Hu Y, et al. Attenuation of Collagen-Induced Arthritis in rat by nicotinic alpha7 receptor partial agonist GTS-21. *Biomed Res Int.* 2014;2014:325875.

Callahan PM, Terry AV Jr, Tehim A. Effects of the nicotinic  $\alpha$ 7 receptor partial agonist GTS-21 on NMDA-glutamatergic receptor related deficits in sensorimotor gating and recognition memory in rats. *Psychopharmacology (Berl).* 2014 Sep;231(18):3695-706.

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