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GTS-21

Cat. No.: HY-14564

CAS No.: 148372-04-7

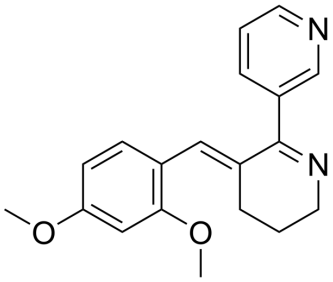
Molecular Formula: $C_{19}H_{20}N_2O_2$

Molecular Weight: 308.37

Target: nAChR; 5-HT Receptor

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling; GPCR/G Protein

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	GTS-21 dihydrochloride is a selective alpha7 nicotinic acetylcholine receptor (α7-nAChR) agonist with anti‐inflammatory and cognition‐enhancing activities. GTS-21 dihydrochloride is also a α4β2 (K_i=20 nM for humanα4β2) and 5-HT3A receptor (IC_{50}=3.1 μM) antagonist. GTS-21 can be used in age-associated memory impairment (AAMI) and Alzheimer's disease research [1][2][3].		
IC_{50} & Target	α7-nAChR	human α4β2	5-HT_{3A} Receptor 3.1 μM (IC_{50})
In Vitro	GTS-21 bound to human α4β2 nAChR (K_i=20 nM) 100-fold more potently than to humanα7-nAChR, and is 18- and 2-fold less potent than (-)-nicotine at human α4β2 and a7 nAChR, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	GTS 21 (4 mg/kg; i.p.; 1, 3, 7, 14 and 21 days) reduces radiation induced histological signs of pulmonary injury[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

CUSTOMER VALIDATION

- Biomed Pharmacother. May 2022, 112733.
- Cell Death Discov. 2022 Feb 8;8(1):54.
- Cell Death Discov. 2021 Mar 29;7(1):63.
- Diabetes Obes Metab. 2022 Jul;24(7):1255-1266.
- Int Immunopharmacol. 2024 Mar 10:129:111603.

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REFERENCES

[1]. Briggs CA, et al. Functional characterization of the novel neuronal nicotinic acetylcholine receptor ligand GTS-21 in vitro and in vivo. Pharmacol Biochem Behav. 1997;57(1-2):231-241.

[2]. Zhang R, et al. N-terminal domains in mouse and human 5-hydroxytryptamine3A receptors confer partial agonist and antagonist properties to benzylidene analogs of anabaseine. J Pharmacol Exp Ther. 2006;317(3):1276-1284.

[3]. Mei Z, et al. α7 nAchR agonist GTS 21 reduces radiation induced lung injury. Oncol Rep. 2018;40(4):2287-2297.

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

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