VQW-765

®

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-19490 669770-29-0 C ₁₉ H ₂₂ N ₂ O 294.39 nAChR Membrane Transporter/Ion Channel; Neuronal Signaling	
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.3969 mL	16.9843 mL	33.9685 ml
	5 mM	0.6794 mL	3.3969 mL	6.7937 mL
	10 mM	0.3397 mL	1.6984 mL	3.3969 mL

BIOLOGICAL ACTI	
Description	VQW-765 (AQW-051) is a selective and orally active alpha-7 nicotinic acetylcholine receptor (α7-nAChR) agonist with a pK _D value of 7.56 to recombinantly expressed human α7-nAChR. VQW-765 shows anxiolytic-like effect in vivo. VQW-765 can be used for the research of anxiety disorder and acute performance anxiety ^[1] .
In Vitro	VQW-765 shows a binding efficacy with a pK _D value of 7.56 to recombinantly expressed human α7-nACh receptor ^[1] . VQW-765 shows a potent agonist activity to calcium transients that detected after stimulation of human α7-nACh receptors recombinantly expressed in GH3-ha7-22 cells with a pEC ₅₀ value of 7.41 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	VQW-765 (0.03 and 0.3 mg/kg; oral administration once) increases cognitive effect and learning/memory performance in mice ^[1] . VQW-765 (1 mg/kg; oral administration once) shows anxiolytic-like effect with increasing the social exploration time in rats with a duration of at least 6 h ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet

Animal Model:	OF1/IC strain adult mice ^[1]
Dosage:	0.03 and 0.3 mg/kg
Administration:	Oral administration; 0.03 and 0.3 mg/kg once
Result:	Increased the learning/memory performance with more time to scrutinize the nove partner than the familiar partner during the re-test trial at 24 h. Showed cognitive- enhancing effects in mice by the object recognition test (ORT).

REFERENCES

[1]. Feuerbach D, et al. AQW051, a novel, potent and selective α7 nicotinic ACh receptor partial agonist: pharmacological characterization and phase I evaluation. Br J Pharmacol. 2015 Mar;172(5):1292-304.

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