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**Product Data Sheet**


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Product Name: VQW-765

Cat. No.: GC70130

**Chemical Properties**

Cas. No. 669770-29-0

Formula C<sub>19</sub>H<sub>22</sub>N<sub>2</sub>O M.Wt 294.39

Solubility Storage 4°C, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

VQW-765 (AQW-051) is a selective and orally active alpha-7 nicotinic acetylcholine receptor (**α7-nAChR**) agonist with a pK<sub>D</sub> 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<sup>[1]</sup>.

VQW-765  α7-nACh  pK<sub>D</sub>  7.56<sup>[1]</sup>

VQW-765  GH3-ha7-22  α7-nACh  pEC<sub>50</sub>  7.41<sup>[1]</sup>

VQW-765 (0.03  0.3 mg/kg ) <sup>[1]</sup>

VQW-765 (1 mg/kg ) 6<sup>[1]</sup>

Animal Model: OF1/IC strain adult mice<sup>[1]</sup>

Dosage: 0.03 and 0.3 mg/kg

Administration: Oral administration; 0.03 and 0.3 mg/kg once

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

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Result: Increased the learning/memory performance with more time to scrutinize the novel 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).

[1]. Feuerbach D, et al. AQW051, a novel, potent and selective  $\alpha 7$  nicotinic ACh receptor partial agonist: pharmacological characterization and phase I evaluation. Br J Pharmacol. 2015 Mar;172(5):1292-304.

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