

## Product Data Sheet

Product Name: nAChR antagonist 3

Cat. No.: GC79516

### Chemical Properties

Cas. No. 3114746-65-2

Formula  $C_{16}H_{21}Br_2N_3O$

M.Wt 431.17

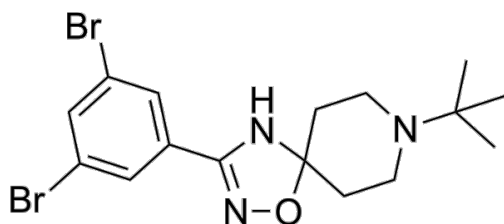
Solubility

Storage Store at -20°C

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

nAChR antagonist 3 is a selective  $\alpha 7$  nAChR antagonist with an  $IC_{50}$  of 0.86  $\mu M$ . nAChR antagonist 3 exerts a protective effect against paraoxon-induced toxicity. nAChR antagonist 3 can be used for the research of organophosphate poisoning [1].

In Vivo, nAChR antagonist 3 (Compound YZ4) (3 mg/kg; intravenous injection; single administration) exhibits a rescue effect against organophosphate poisoning in mice [1].

In Vitro, nAChR antagonist 3 (Compound YZ4) (3-30  $\mu M$ ; 24 h) exerts significant dose-dependent

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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cytoprotective effects on HT22 cells treated with the organophosphorus pesticide Paraoxon<sup>[1]</sup>.

### References:

[1]. Zhang H, et al. Discovery of Potent and Subtype-Selective  $\alpha 7$  nAChR Antagonists for Organophosphate Poisoning Protection. J Med Chem. 2026;69(5):6138-6157.

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