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**Product Data Sheet**

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Product Name: RJR-2403 oxalate

Cat. No.: GC12102

**Chemical Properties**

Cas. No. 220662-95-3

Chemical Name (E)-N-methyl-4-pyridin-3-ylbut-3-en-1-amine;oxalic acid

SMILES CNCCC=CC1=CN=CC=C1.C(=O)(C(=O)O)O

Formula C<sub>12</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub> M.Wt 252.27

Solubility Soluble to 100 mM in sterile water 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**

Rivanicline oxalate (RJR-2403 oxalate; (E)-Metanicotine oxalate) is a neuronal nicotinic receptor agonist, showing high selectivity for the  $\alpha 4\beta 2$  subtype ( $K_i=26$  nM); > 1,000 fold selectivity than  $\alpha 7$  receptors( $K_i= 3.6$   $\mu$ M).

## References:

- [1]. Bencherif M, et al. RJR-2403: a nicotinic agonist with CNS selectivity I. In vitro characterization. J Pharmacol Exp Ther. 1996 Dec;279(3):1413-21.
- [2]. Lippiello PM, et al. RJR-2403: a nicotinic agonist with CNS selectivity II. In vivo characterization. J Pharmacol Exp Ther. 1996 Dec;279(3):1422-9.
- [3]. Damaj MI, et al. Antinociceptive and pharmacological effects of metanicotine, a selective nicotinic agonist. J Pharmacol Exp Ther. 1999 Oct;291(1):390-8.

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

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