
Product Data Sheet

Product Name: Mirtazapine D3

Cat. No.: GC61067

Chemical Properties

Cas. No. 1216678-68-0

SMILES [2H]C([2H])([2H])N1CC2C3=CC=CC=C3CC4=CC=CN=C4N2CC1Formula $C_{17}H_{16}D_3N_3$ M.Wt 268.37Solubility DMF: 20 mg/ml, DMF:PBS (pH 7.2) (1:5): 0.16 mg/ml, DMSO: 15 mg/ml, Ethanol: 15 mg/ml
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 sizes: ship with RT, or blue ice upon request.

Structure **Background**

Mirtazapine-d₃ is an analytical reference material intended for use as an internal standard for the quantification of mirtazapine. Mirtazapine is categorized as an antidepressant.¹ It inhibits maintenance of methamphetamine-induced conditioned place preference in rats. It also impairs acquisition and reinstatement of cocaine-induced place preference in rats.² This product is intended for research and forensic applications.

1. Voigt, R.M., Mickiewicz, A.L., and Napier, T.C. Repeated mirtazapine nullifies the maintenance of previously established methamphetamine-induced conditioned place preference in rats. *Behav. Brain Res.* 225(1):91-96(2011)
 2. Barbosa-Méndez, S., Matus-Ortega, M., Jacinto-Gutiérrez, S., et al. Mirtazapine impairs acquisition and reinstatement of cocaine-induced place preference in rats. *Eur. J. Pharmacol.* 820:183-190(2018)

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
