

Product Data Sheet

Product Name: (±)-Cotinine-d3

Cat. No.: GC46284

Chemical Properties

Cas. No. 110952-70-0

SMILES O=C(N1C([2H])([2H])[2H])CCC1C2=CC=CN=C2

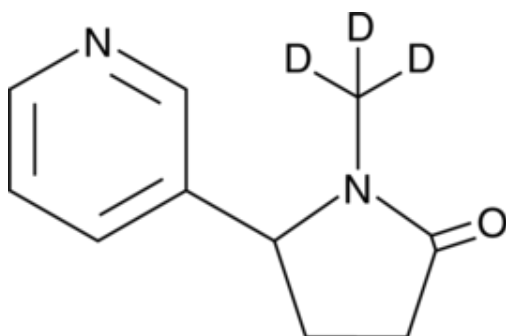
Formula C₁₀H₉D₃N₂O M.Wt 179.2

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, PBS (pH 7.2): 10 mg/ml
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

(±)-Cotinine-d₃ is intended for use as an internal standard for the quantification of cotinine by GC- or LC-MS. Cotinine is an alkaloid found in tobacco and a major metabolite of nicotine.^{1,2} It is formed by oxidation of nicotine by the cytochrome P450 (CYP) isoform CYP2A6.²

1. Stålhandske, T. The metabolism of nicotine and cotinine by a mouse liver preparation. Acta. Physiol. Scand. 78(2)236-248 (1970)
2. Murphy, S.E., Link, C.A., Jensen, J., et al. A comparison of urinary biomarkers of tobacco and carcinogen exposure in smokers. Cancer Epidemiology, Biomarkers & Prevention 13(10)1617-1623 (2004)

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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