
Product Data Sheet

Product Name: Nicotinuric acid-d4

Cat. No.: GC63841

Chemical Properties

Cas. No. 1216737-36-8

Formula C₈H₄D₄N₂O₃

M.Wt 184.19

Solubility DMSO : 100 mg/mL (542.92 mM; Need ultrasonic); H₂O :
1.56 mg/mL (8.47 mM; Need ultrasonic)Store
Storage 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**

Nicotinuric acid-d4 is the deuterium labeled Nicotinuric acid. Nicotinuric acid is an acyl glycine. Nicotinuric acid is a metabolite of nicotinic acid[1][2].

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216. [2]. Inamadugu JK, et al. Simultaneous determination of niacin and its metabolites--nicotinamide, nicotinuric acid and N-methyl-2-pyridone-5-carboxamide--in human plasma by LC-MS/MS and its application to a human pharmacokinetic study. *Biomed Chromatogr.* 2010 Oct;24(10):1059-74.

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