
Product Data Sheet

Product Name: Niacin-13C6

Cat. No.: GC65072

Chemical Properties

Cas. No. 1189954-79-7

Formula 13C6H5NO2

M.Wt 129.07

Solubility DMSO : 50 mg/mL (387.39 mM; ultrasonic and warming and heat to 60°C); H₂O : 10 mg/mL (77.48 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**

Niacin-13C6 (Nicotinic acid-13C6) is the 13C-labeled Niacin. Niacin (Nicotinic acid) is a vitamin and is part of the vitamin B group.

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]. Bruckert E, et al. Meta-analysis of the effect of nicotinic acid alone or in combination on cardiovascular events and atherosclerosis. *Atherosclerosis.* 2010 Jun;210(2):353-61.

[3]. Wan P, et al. Pellagra: a review with emphasis on photosensitivity. *Br J Dermatol.* 2011 Jun;164(6):1188-200.

[4]. Ishii N, et al. Pellagra among chronic alcoholics: clinical and pathological study of 20 necropsy cases. *J Neurol Neurosurg Psychiatry.* 1981 Mar;44(3):209-15.

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

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