

Product Data Sheet

Product Name: N-Nitroso Sarcosine-d3

Cat. No.: GC49354

Chemical Properties

Cas. No. 1189871-94-0

SMILES OC(CN(C([2H])([2H])[2H])N=O)=O

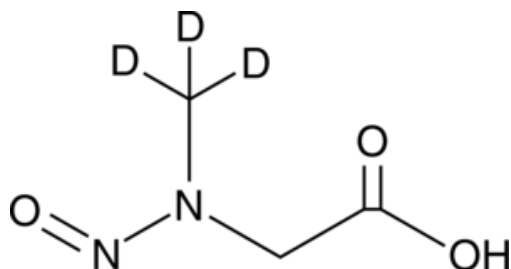
Formula C3H3D3N2O3 M.Wt 121.1

Solubility Chloroform: soluble, DMSO: sparingly soluble, Methanol: slightly soluble Storage -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

N-Nitrososarcosine-d3 is intended for use as an internal standard for the quantification of nitrososarcosine by GC- or LC-MS. N-Nitroso sarcosine is a nitrosamine.¹ It has been found in smoked and cured meats and tobacco smoke.^{2,3} Dietary administration of N-nitroso sarcosine (0.25%) induces tumors in mice and administration *via* the drinking water at doses of 100 or 200 mg/kg induces tumors in rats.¹

1. IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans: Some N-nitroso compounds (1978) 2. Herrmann, S., Duedahl-Olesen, L., and Granby, K. Occurrence of volatile and non-volatile N-nitrosamines in processed meat products and the role of heat treatment Food Control 48:163-169 (2015) 3. Report on carcinogens, fourteenth edition (2016)

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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