

Product Data Sheet

Product Name: Glycohyocholic Acid-d4

Cat. No.: GC49006

Chemical Properties

Cas. No. 32747-08-3

SMILES O[C@@H]1C([2H])([2H])C[C@@]2(C)[C@@]([C@@H](O)[C@@H](O)[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])CC[C@]4([H])[C@H](C)CCC(NCC(O)=O)=O)([H])C1([2H])[2H]

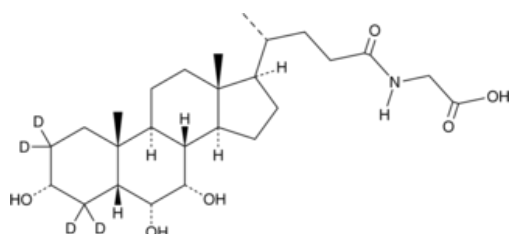
Formula C₂₆H₃₉D₄NO₆ M.Wt 469.7

Solubility DMF: 30 mg/ml, DMF:PBS (pH 7.2) Storage -20°C
(1:1): 0.5 mg/ml, DMSO: 20 mg/ml, Ethanol: 20 mg/ml

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

Glycohyocholic Acid-d₄ (GHCA-d₄) is intended for use as an internal standard for the quantification of GHCA by GC- or LC-MS. GHCA is a glycine-conjugated form of the primary bile acid hyocholic acid.¹ GHCA is upregulated 6.6-fold in the serum of patients with cirrhosis induced by hepatitis C virus (HCV) compared to healthy controls.² Plasma levels of GHCA increase in patients who are no longer diabetic following gastric bypass surgery.³

1. Guo, L., Milburn, M.V., Ryals, J.A., et al. Plasma metabolomic profiles enhance precision medicine for volunteers of normal health. *Proc. Nat. Acad. Sci. USA* 112(35):E4901-E4910 (2015).
2. Fitian, A.I.,

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

Product Data Sheet

Nelson, D.R., Liu, C., et al. Integrated metabolomic profiling of hepatocellular carcinoma in hepatitis C cirrhosis through GC/MS and UPLC/MS-MS. *Liver Int.* 34(9):1428-1444 (2014).

3. Yu, H., Ni, Y., Bao, Y., et al. Chenodeoxycholic acid as a potential prognostic marker for Roux-en-Y gastric bypass in Chinese obese patients. *J. Clin. Endocrinol. Metab.* 100(11):4222-4230 (2015).

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