
Product Data Sheet

Product Name: 6 α -Hydroxy Paclitaxel-d5

Cat. No.: GC63958

Chemical Properties

Cas. No. 1315376-90-9

Formula C47H46D5NO15 M.Wt 874.94

Solubility 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

6 α -Hydroxy Paclitaxel-d5 is the deuterium labeled 6 α -Hydroxy paclitaxel. 6 α -Hydroxy paclitaxel is a primary metabolite of Paclitaxel. 6 α -Hydroxy paclitaxel retains a time-dependent effect on organic anion-transporting polypeptides 1B1/SLCO1B1 (OATP1B1) with similar inhibition potency to Paclitaxel, whereas it no longer showed time-dependent inhibition of OATP1B3. 6 α -Hydroxy paclitaxel can be used for the research of cancer[1].

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]. Mori D, et al. Alteration in the Plasma Concentrations of Endogenous Organic Anion-Transporting Polypeptide 1B Biomarkers in Patients with Non-Small Cell Lung Cancer Treated with Paclitaxel. *Drug Metab Dispos.* 2020 May;48(5):387-394.

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