

Product Data Sheet

Product Name: Butylated hydroxytoluene-d3

Cat. No.: GC74728

Chemical Properties

Cas. No. 86819-59-2

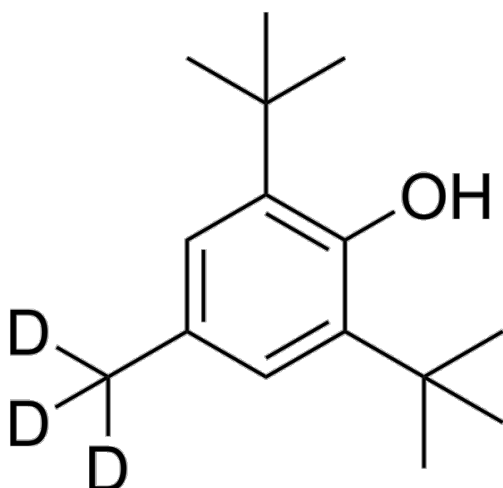
Formula $C_{15}H_{21}D_3O$ M.Wt 223.37

Solubility DMSO : 100 mg/mL (447.69 mM; Storage -20°C
Need ultrasonic and warming)

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

Butylated droxytoluene-d3 is the deuterium labeled Butylated droxytoluene[1]. Butylated droxytoluene is an antioxidant widely used in foods and in food-related products[2]. Butylated droxytoluene is a Ferroptosis inhibitor[3].

Stable heavy isotopes of drogen, 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

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drugs[1].

References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Babich H, et al. Butylated droxytoluene (BHT): a review. *Environ Res*. 1982 Oct;29(1):1-29.
- [3]. Umemura T, et al. Butyldroxytoluene (BHT) increases susceptibility of transgenic rasH2 mice to lung carcinogenesis. *J Cancer Res Clin Oncol*. 2001 Oct127(10):583-90.
- [4]. Stockwell BR, et al. Ferroptosis: A Regulated Cell Death Nexus Linking Metabolism, Redox Biology, and Disease. *Cell*. 2017 Oct 5171(2):273-285.

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