

Product Data Sheet

Product Name: Bisphenol A-d14

Cat. No.: GC71528

Chemical Properties

Cas. No. 120155-79-5

Formula $C_{15}H_2D_{14}O_2$

M.Wt 242.37

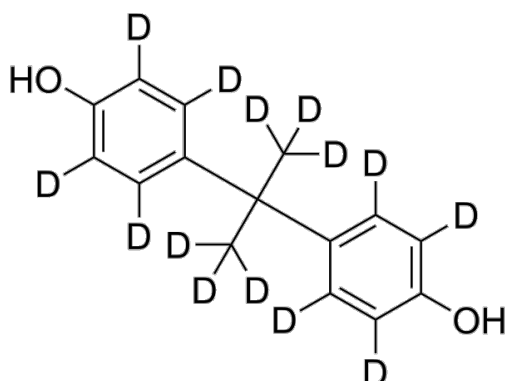
Solubility

Storage

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

Bisphenol A-d14 is a deuterium labeled Bisphenol A. Bisphenol A is a phenolic, organic synthetic compound widely used in the production of polycarbonate plastics and epoxy resins. Bisphenol A is a reproductive, developmental, and systemic toxicant, often classified as an endocrine-disrupting compound (EDC). Bisphenol A is associated with many diseases, including cardiovascular diseases, respiratory diseases, diabetes, kidney diseases, obesity, and reproductive disorders.

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

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gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-246.
- [2]. Huang M, et al. Bisphenol A and its analogues bisphenol S, bisphenol F and bisphenol AF induce oxidative stress and biomacromolecular damage in human granulosa KGN cells. Chemosphere. 2020 Apr 9;253:126707.
- [3]. Rubin BS, et al. Bisphenol A: an endocrine disruptor with widespread exposure and multiple effects. J Steroid Biochem Mol Biol. 2011 Oct;127(1-2):27-34.

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