
Product Data Sheet

Product Name: Zuclopenthixol-d4 succinate salt

Cat. No.: GC63330

Chemical Properties

Cas. No. 1246833-97-5

Formula C₂₆H₂₇D₄ClN₂O₅S

M.Wt

523.08

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

Zuclopenthixol-d4((Z)-Clopenthixol-d4) succinate salt is the deuterium labeled Zuclopenthixol. Zuclopenthixol is a thioxanthene derivative which acts as a mixed dopamine D1/D2 receptor antagonist[1][2].

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]. Manzanque JM, et al. An ethopharmacological assessment of the effects of zuclopenthixol on agonistic interactions in male mice. *Methods Find Exp Clin Pharmacol.* 1999 Jan-Feb;21(1):11-5.

[3]. Khalifa AE, et al. Pro-oxidant activity of zuclopenthixol in vivo: differential effect of the drug on brain oxidative status of scopolamine-treated rats. *Hum Exp Toxicol.* 2004 Aug;23(9):439-45.

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