
Product Data Sheet

Product Name: Exemestane-D2

Cat. No.: GC63755

Chemical Properties

Cas. No.

Formula $C_{20}H_{22}D_2O_2$ M.Wt 298.42

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

Exemestane-D2 (FCE 24304-D2) is the deuterium labeled Exemestane. Exemestane (FCE 24304) is a selective, irreversible and orally active steroidal aromatase inhibitor with IC50s of 30 nM and 40 nM for human placental and rat ovarian aromatase, respectively. Exemestane can be used for hormone-dependent breast cancer research[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]. Di Salle, E., et al., Novel aromatase and 5 alpha-reductase inhibitors. *J Steroid Biochem Mol Biol*, 1994. 49(4-6): p. 289-94.; Miki, Y, et al. Effects of aromatase inhibitors on human osteoblast and osteoblast-like cells: a possible androgenic bone protective effects induced by exemestane. *Bone.* 2004 Sep 1;10(17):5717-23.; Goss, P.E., et al., Effects of the steroidal aromatase inhibitor exemestane and the nonsteroidal aromatase inhibitor letrozole on bone and lipid metabolism in ovariectomized rats. *Clin Cancer Res*, 2004. 10(17): p.

Caution: Product has not been fully validated for medical applications. For research use only.

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5717-23.;Zaccheo, T., D. Giudici, and E. Di Salle, Inhibitory effect of combined treatment with the aromatase inhibitor exemestane and tamoxifen on DMBA-induced mammary tumors in rats. J Steroid Biochem Mol Biol, 1993. 44(4-6): p. 677-80.

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