

Product Data Sheet

Product Name: 11-keto Testosterone-d₃

Cat. No.: GC46409

Chemical Properties

Cas. No. N/A

SMILES O[C@@]1([2H])C([2H])([2H])C[C@@]([C@]1(C)C2)([H])[C@]3([H])CCC4=CC(CC[C@]4(C)[C@@]3([H])C2=O)=O

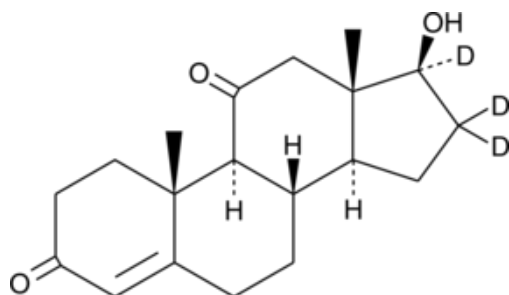
Formula C₁₉H₂₃D₃O₃ M.Wt 305.4

Solubility DMF: 20 mg/mL, DMSO: 30 mg/mL, DMSO: PBS (pH 7.2) (1:10): 0.09 mg/mL, Ethanol: 20 mg/mL
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

11-keto Testosterone-d₃ is intended for use as an internal standard for the quantification of 11-keto testosterone (CRM) by GC- or LC-MS. 11-keto Testosterone is structurally categorized as an androgen. It is a significant hormone in certain fish, regulating the development of sexual development and behavior.^{1,2} 11-keto Testosterone binds the stickleback kidney androgen receptor (EC₅₀ = 43 nM).³ 11-keto Testosterone, at 10 nM, significantly activates the human androgen receptor expressed in zebrafish liver cells.³ This product is intended for research and forensic applications.

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

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1. Yamaguchi, T., Watanuki, H., and Sakai, M. Effects of estradiol, progesterone and testosterone on the function of carp, *Cyprinus Carpio*, phagocytes in vitro *Comparative Biochemistry and Physiology* 129C(1)49-55(2001)
2. Godwin, J. Neuroendocrinology of sexual plasticity in teleost fishes *Front. Neuroendocrinol.* 31(2)203-216(2010)
3. Olsson, P.E., Berg, A.H., von Hofsten, J., et al. Molecular cloning and characterization of a nuclear androgen receptor activated by 11-ketotestosterone *Reproductive Biology and Endocrinology* 3:37(2005)

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