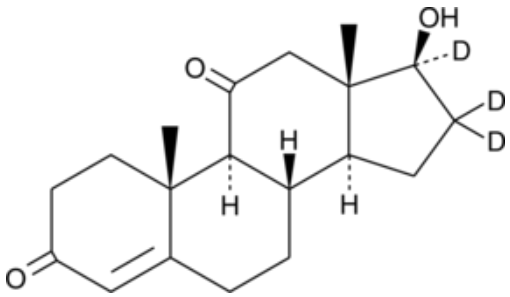
Product Data Sheet

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-d_3 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 (EC_{50} = 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.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
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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 vitroComparative Biochemistry and Physiology129C(1)49-55(2001) 2.Godwin, J.Neuroendocrinology of sexual plasticity in teleost fishesFront.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-ketotestosteroneReproductive Biology and Endocrinology3:37(2005)

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