

Product Data Sheet

Product Name: Pregnanetriol

Cat. No.: GC48724

Chemical Properties

Cas. No. 1098-45-9

SMILES C[C@@]12[C@](CC[C@]2(O)[C@H](C)O)([H])[C@@]3([H])[C@@](CC1)([H])[C@@]4([C@](C[C@@H](CC4)O)([H])CC3)C

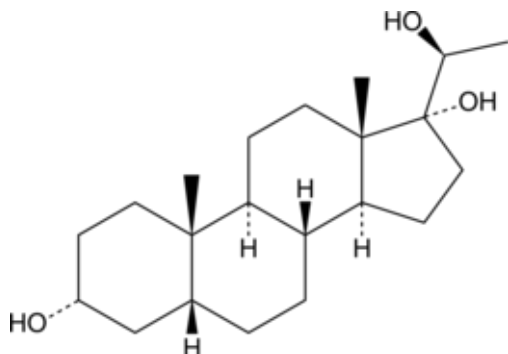
Formula C₂₁H₃₆O₃ M.Wt 336.5

Solubility Methanol: soluble Storage -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Pregnanetriol is a metabolite of 17 α -hydroxyprogesterone.^{1,2} It is formed from 17 α -hydroxyprogesterone by reduction of the C-20 ketone.² Urinary levels of pregnanetriol are elevated in patients with 21-hydroxylase deficiency and congenital adrenal hyperplasia.^{3,4}

1. Kamrath, C., Hartmann, M.F., Boettcher, C., et al. Diagnosis of 21-hydroxylase deficiency by urinary metabolite ratios using gas chromatography-mass spectrometry analysis: Reference values for neonates and infants. *J. Steroid Biochem. Mol. Biol.* 156:10-16 (2016)
2. Schiffer, L., Barnard, L.,

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

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Baranowski, E.S., et al. Human steroid biosynthesis, metabolism and excretion are differentially reflected by serum and urine steroid metabolomes: A comprehensive review. *J. Steroid Biochem. Mol. Biol.* 194:105439(2019) 3. Disorders of steroidogenesis guide to steroid profiling and biochemical diagnosis 1(2019) 4. Shackleton, C.H.L. Role of a disordered steroid metabolome in the elucidation of sterol and steroid biosynthesis. *Lipids* 47(1):1-12(2012)

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