

Product Data Sheet

Product Name: α -Cortolone

Cat. No.: GC49838

Chemical Properties

Cas. No. 516-42-7

SMILES C[C@@]12[C@](CC[C@]2(O)[C@@H](O)CO)([H])[C@@]3([H])[C@@](C(C1)=O)([H])[C@@]4([C@](C[C@@H](CC4)O)([H])CC3)C

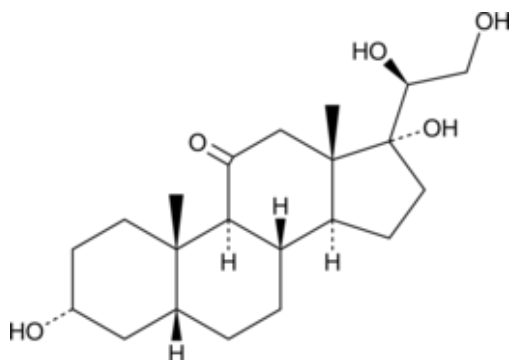
Formula $C_{21}H_{34}O_5$ M.Wt 366.5

Solubility DMSO: soluble, Ethanol: 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

α -Cortolone is a metabolite of the glucocorticoid cortisol.¹ It is formed from cortisol by 20α -hydroxysteroid dehydrogenase (20α -HSD) via a tetrahydrocortisone intermediate. Urinary levels of α -cortolone are decreased in patients with severe anorexia nervosa and in postmenopausal women with endometrial adenocarcinoma compared to postmenopausal women without endometrial adenocarcinoma.^{2,3}

1. Espiard, S., McQueen, J., Sherlock, M., et al. Improved urinary cortisol metabolome in Addison disease: A prospective trial of dual-release hydrocortisone. J. Clin. Endocrinol. Metab. 106(3):814-

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

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825(2021) 2.Wassif, W.S., McLoughlin, D.M., Vincent, R.P., et al.Steroid metabolism and excretion in severe anorexia nervosa: Effects of refeedingAm. J. Clin. Nutr.93(5)911-917(2011) 3.Bufa, A., BÍRÓ, I., PoÓr, V., et al.Altered urinary profiles of endogenous steroids in postmenopausal women with adenocarcinoma endometriiGynecol. Endocrinol.26(1)10-15(2010)

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