

Product Data Sheet

Product Name: 5 α -Dihydrocortisol

Cat. No.: GC79614

Chemical Properties

Cas. No. 516-41-6

Formula C₂₁H₃₂O₅

M.Wt 364.48

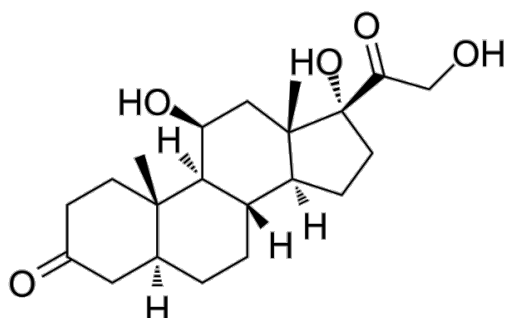
Solubility

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

5 α -Dihydrocortisol (5 α -DHF), a metabolite of Hydrocortisone (Cortisol), is a steroid hormone. 5 α -Dihydrocortisol can enhance the mineralocorticoid activity of aldosterone [1] [2].

In Vitro, In the adrenalectomized rat kidney, in vitro, 5 α -Dihydrocortisol (5 α -DHF) has 20% the affinity

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

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

of Dexamethasone for classical (type II) glucocorticoid receptors, 10% the affinity of Corticosterone for (type III) corticosteroid-binding globulin-like glucocorticoid receptors, and 3% the affinity of Aldosterone for mineralocorticoid receptors (type I). 5 α -Dihydrocortisol has <0.1% the affinity of Dihydrotestosterone in mouse kidney receptors and <0.1% the affinity of both Estradiol and Progesterone for their receptors in rat uterus^[1].

References:

- [1]. Adam WR, et al. Amplification of the action of aldosterone by 5 alpha-dihydrocortisol. *Endocrinology*. 1978 Aug;103(2):465-71.
- [2]. Mikami H, et al. The effect of 5 alpha-dihydrocortisol on the blood pressure of rats treated with deoxycorticosterone acetate and salt. *Endocrinol Jpn*. 1980 Dec;27(6):769-73.

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

Address: 10292 Central Ave. #205, Montclair, CA, USA