
Product Data Sheet

Product Name: Levomefolate calcium

Cat. No.: GC11558

Chemical Properties

Cas. No. 151533-22-1

Chemical Name calcium (S)-4-(4-(((S)-2-amino-5-methyl-4-oxo-1,4,5,6,7,8-hexahydropteridin-6-yl)(methyl)amino)benzamido)-4-carboxybutanoate 4-(4-(((S)-2-amino-5-methyl-4-oxo-1,4,5,6,7,8-hexahydropteridin-6-yl)(methyl)amino)benzamido)-4-carboxybutanoate

SMILES CN1C(CNC2=C1C(=O)N=C(N2)N)CNC3=CC=C(C=C3)C(=O)NC(CCC(=O)O)C(=O)O.[Ca+2]

Formula C₄₀H₄₈CaN₁₄O₁₂

M.Wt 499.53

Solubility <4.73 mg/mL in DMSO, <4.99 mg/mL in Water, <2.4 mg/mL in EtOH

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**

Levomefolate calcium is an artificial form of folate. IC₅₀ Value: Target: Antifolate The calcium salt of L-5-methyltetrahydrofolic acid which belongs to the group of folate vitamins (Vitamin B₉, Folic acid). It is a coenzymated form of folic acid and a more bioavailable alternative in dietary supplements.

References:

[1]. Fruzzetti F. Beyaz : an oral contraceptive fortified with folate. Womens Health (Lond Engl). 2012 Jan;8(1):13-9.

[2]. Wiesinger H, Eydelor U, Richard F, et al. Bioequivalence evaluation of a folate-supplemented oral contraceptive containing ethinylestradiol/drospirenone/levomefolate calcium versus ethinylestradiol/drospirenone and levomefolate calcium alone. Clin Drug Investig. 2012 Oct 1;32(10):673-84.

[3]. Hartmut Blodea, Christine Klippingb, Frank Richardc, et al. Bioequivalence study of an oral

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contraceptive containing ethinylestradiol/drospirenone/levomefolate calcium relative to ethinylestradiol/drospirenone and to levomefolate calcium alone. Contraception.2012, 85(2), :177-184

[4]. Rapkin RB, Creinin MD. The combined oral contraceptive pill containing drospirenone and ethinyl estradiol plus levomefolate calcium. Expert Opin Pharmacother. 2011 Oct;12(15):2403-10. doi: 10.1517/14656566.2011.610791.

[5]. Levomefolic_acid

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