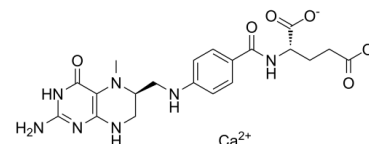


Data Sheet

Product Name:	Levomefolate (calcium)
Cat. No.:	CS-1066
CAS No.:	151533-22-1
Molecular Formula:	C ₂₀ H ₂₃ CaN ₇ O ₆
Molecular Weight:	497.52
Target:	Antifolate
Pathway:	Cell Cycle/DNA Damage
Solubility:	H ₂ O : 4.4 mg/mL (8.84 mM; Need ultrasonic and warming)



BIOLOGICAL ACTIVITY:

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, Folacin). 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 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

CAIndexNames:

L-Glutamic acid, N-[4-[[[(6S)-2-amino-3,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-pteridiny]methyl]amino]benzoyl]-, calcium salt (1:1)

SMILES:

O=C([O-])CC[C@@H](C([O-])=O)NC(C1=CC=C(NC[C@@H]2N(C)C3=C(N=C(N)NC3=O)NC2)C=C1)=O.[Ca+2]

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

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