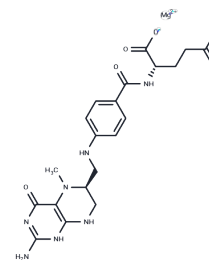


Levomefolate magnesium

Chemical Properties

CAS No. :	1429498-11-2
Formula:	C ₂₀ H ₂₃ MgN ₇ O ₆
Molecular Weight:	481.74
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Levomefolate magnesium is the magnesium salt of the metabolite of folic acid (Vitamin B9) and it is a predominant active form of folate found in foods and in the blood circulation, accounting for 98% of folates in human plasma. It is transported across the membranes including the blood-brain barrier into various tissues where it plays an essential role in the DNA synthesis, cysteine cycle and regulation of homocysteine, where it methylates homocysteine and forms methionine and tetrahydrofolate (THF). Levomefolate is approved as a food additive and is designated a GRAS (generally regarded as safe) compound. It is available commercially as a crystalline form of the calcium salt (Metafolin(R)), which has the stability required for use as a supplement. Supplementation of levomefolic acid is desired over folic acid due to reduced potential for masking vitamin B12 deficiency symptoms.
Targets(IC50)	Others,Endogenous Metabolite,DNA/RNA Synthesis,ROS

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0758 mL	10.379 mL	20.7581 mL
5 mM	0.4152 mL	2.0758 mL	4.1516 mL
10 mM	0.2076 mL	1.0379 mL	2.0758 mL
50 mM	0.0415 mL	0.2076 mL	0.4152 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Diefenbach K, Trummer D, Ebert F, Lissy M, Koch M, Rohde B, Blode H. EE-drospirenone-levomefolate calcium versus EE-drospirenone + folic acid: folate status during 24 weeks of treatment and over 20 weeks following treatment cessation. *Int J Womens Health*. 2013 Apr 11;5:149-63. doi: 10.2147/IJWH.S37254. Print 2013. PubMed PMID: 23610531; PubMed Central PMCID: PMC3628530.

Wiesinger H, Eydeler U, Richard F, Trummer D, Blode H, Rohde B, Diefenbach K. 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. doi: 10.2165/11635280-000000000-00000. PubMed PMID: 22909145.

Bart S Sr, Marr J, Diefenbach K, Trummer D, Sampson-Landers C. Folate status and homocysteine levels during a 24-week oral administration of a folate-containing oral contraceptive: a randomized, double-blind, active-controlled, parallel-group, US-based multicenter study. *Contraception*. 2012 Jan;85(1):42-50. doi: 10.1016/j.contraception.2011.05.013. Epub 2011 Jul 13. PubMed PMID: 22067790.

Blode H, Klipping C, Richard F, Trummer D, Rohde B, Diefenbach K. Bioequivalence study of an oral contraceptive containing ethinylestradiol/drospirenone/levomefolate calcium relative to ethinylestradiol/drospirenone and to levomefolate calcium alone. *Contraception*. 2012 Feb;85(2):177-84. doi: 10.1016/j.contraception.2011.05.015. Epub 2011 Jul 19. PubMed PMID: 22067789.

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