

Product Information

Levomefolate calcium, Purity ≥98%

Cat. No.: X24-09-YM1239

Size: 25 mg; 50 mg; 100 mg; 200 mg

MDL: MFCD18642975

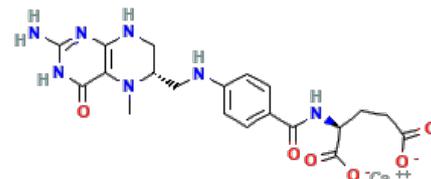
CAS Number: 151533-22-1

Compound CID: 135564391

Synonym: 151533-22-1; L-5-Methyltetrahydrofolate calcium; Calcium;

(2S)-2-[[4-[[[(6S)-2-amino-5-methyl-4-oxo

-3,6,7,8-tetrahydropteridin-6-yl]methylamino]benzoyl]amino]pentanedioate



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Levomefolate calcium, insoluble in DMSO and ethanol and soluble in water, is the primary biologically active form of folic acid. The molecular weight of the compound is 499.53, and its molecular formula is C ₂₀ H ₂₅ CaN ₇ O ₆ .
Molecular Weight	499.53
Molecular Formula	C ₂₀ H ₂₅ CaN ₇ O ₆
IUPAC Name	Calcium;(2S)-2-[[4-[[[(6S)-2-amino-5-methyl-4-oxo-3,6,7,8-tetrahydropteridin-6-yl]methylamino]benzoyl]amino]pentanedioate
InChI	InChI=1S/C20H25N7O6.Ca/c1-27-12(9-23-16-15(27)18(31)26-20(21)25-16)8-22-11-4-2-10(3-5-11)17(30)24-13(19(32)33)6-7-14(28)29;/h2-5,12-13,22H,6-9H2,1H3,(H,24,30)(H,28,29)(H,32,33)(H4,21,23,25,26,31);/q;+2/p-2/t12-,13-;/m0./s1
InChI Key	VWBBRFHSPXRJQD-QNTKWALQSA-L
Canonical SMILES	CN1C(CNC2=C1C(=O)NC(=N2)N)CNC3=CC=C(C=C3)C(=O)NC(CCC(=O)[O-])C(=O)[O-].[Ca+2]
Isomeric SMILES	C1=CC=C(C=C1)/C=C/C2=N/C(=C/C3=CN=CC=C3)/C(=O)O2
Form	Lyophilized powder
Purity	≥98%
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: insoluble; Water: 1 mg/mL (2 mM); Ethanol: insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.



Quality Level	Research grade
Applications	Levomefolate calcium can be studied extensively for its potential therapeutic applications in the treatment of conditions associated with folate deficiency, such as neural tube defects, and in cancer therapy to enhance the efficacy of certain chemotherapeutics.
Storage	Store at -20°C, and keep desiccated.