Levomefolate (calcium salt)
Item No. 21616

CAS Registry No.: 151533-22-1
Formal Name: N-[4-[[[(6S)-2-amino-3,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-pteridinyl][methyl]amino]benzoyl]-L-glutamic acid, monocalcium salt
Synonyms: BAY 86-7660, LMCA
MF: C_{20}H_{23}N_{7}O_{6} • Ca
FW: 497.5
Purity: ≥98%
UV/Vis.: \( \lambda_{\text{max}} \): 217, 290 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Levomefolate (calcium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the levomefolate (calcium salt) in water. The solubility of levomefolate (calcium salt) in water is approximately 0.3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Levomefolate is the calcium salt of 5-methyltetrahydrofolic acid (Item No. 16159), a biologically active form of folic acid (Item No. 20515) that functions, in conjunction with Vitamin B_{12} (Item No. 18425), as a methyl-group donor involved in the conversion of homocysteine to methionine.\textsuperscript{1,2} The availability of methyl groups is essential for a variety of methylation reactions including the synthesis of DNA and proper neural tube closure.\textsuperscript{1} Levomefolate is included in formulations of certain oral contraceptives to ensure adequate folic acid levels in women of child-bearing age to reduce the risk of neural tube defects. The combination of levomefolate and oral contraceptives increases folic acid levels.\textsuperscript{3,4}

References