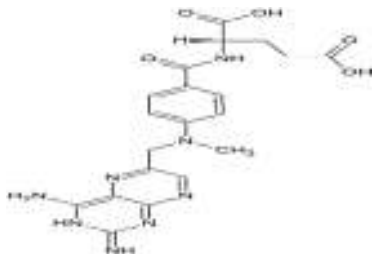


Methotrexate

ALTERNATE NAME: MTX
Amethopterin
CL 14,377
N-[4-[[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-L-glutamic acid
NSC 740

CATALOG #: B2654-50 50 mg
B2654-250 250 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₀H₂₂N₈O₅

MOLECULAR WEIGHT: 454.4

CAS NUMBER: 59-05-2

APPEARANCE: Orange solid

PURITY: ≥98%

SOLUBILITY: >40 mg/ml DMSO

DESCRIPTION: Methotrexate is a folate derivative that inhibits several enzymes responsible for nucleotide synthesis. This inhibition leads to suppression of inflammation as well as prevention of cell division. Because of these effects, methotrexate is often used to treat inflammation caused by arthritis or to control cell division in neoplastic diseases such as breast cancer and non-Hodgkin's lymphoma. MTX is known to induce adenosine release, which mediates many of its anti-inflammatory effects, including the reduction of proinflammatory cytokines.

STORAGE TEMPERATURE: -20°C. Protect from light

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Mitoxantrone (1885)
Altretamine (B2444)
Vinblastine Sulfate (1959)
5-Fluorouracil (B1519)
Amsacrine (B2445)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*