

Product Data Sheet

Product Name: Lometrexol

Cat. No.: GC18404

Chemical Properties

Cas. No. 106400-81-1

Chemical Name N-[4-[2-[(6R)-2-amino-3,4,5,6,7,8-hexahydro-4-oxopyrido[2,3-d]pyrimidin-6-yl]ethyl]benzoyl]-L-glutamic acid

SMILES O=C(N[C@H](C(O)=O)CCC(O)=O)C1=CC=C(CC[C@H]2CNC(N=C(N)NC3=O)=C3C2)C=C1

Formula $C_{21}H_{25}N_5O_6$

M.Wt 443.5

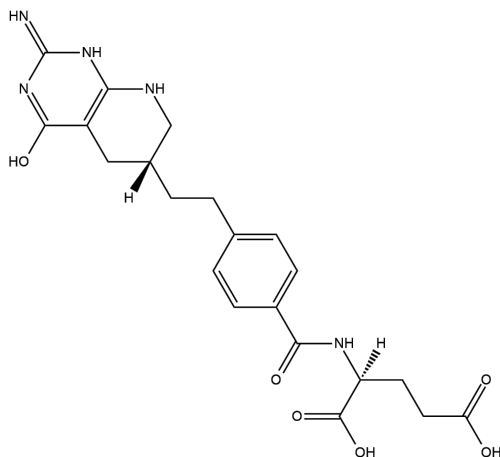
Solubility Soluble in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Glycinamide ribonucleotide formyltransferase (GART) is a folate-dependent enzyme required for de novo purine synthesis. Lometrexol is a folate analog antimetabolite with antineoplastic activity. At nanomolar concentrations, it inhibits GART preventing de novo purine synthesis, inhibiting DNA synthesis, arresting cells in the S phase of the cell cycle, and inhibiting tumor cell proliferation.

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

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