Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Methotrexate

Catalog No: tcsc1732

Available Sizes

Size: 100mg

Size: 500mg

Specifications

CAS No:
59-05-2

Formula:
$C_{20}H_{22}N_8O_5$

Pathway:
Cell Cycle/DNA Damage;Antibody-drug Conjugate/ADC Related

Target:
Antifolate;ADC Cytotoxin

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 30 mg/mL (66.02 mM)

Alternative Names:
Amethopterin;CL14377;WR19039

Observed Molecular Weight:
454.44

Product Description

Methotrexate is a traditional **folate** antagonist, with median **IC_{50}** of 78 nM for a 120 h drug exposure in a panel of six pediatric leukemia and lymphoma cell lines using the sulforhodamine B assay.

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

IC50 & Target: Antifolate[1]

In Vitro: Methotrexate (MTX), which has a more predictable toxicity profile than aminopterin, has become a cornerstone of the treatment for childhood acute lymphoblastic leukemia (ALL) and for non-Hodgkins lymphoma[1].

In Vivo: Methotrexate (MTX) exposure reduces thymus and spleen indices of mice. Methotrexate markedly decreases white blood cells, thymic and splenic lymphocytes at dose ≥5 mg/kg. However, there is a significant difference between the treatment plus control group and the model group (p[2].