Edatrexate

Cat. No.: HY-13617

CAS No.: 80576-83-6

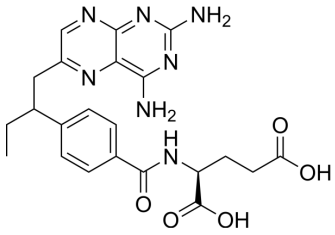
Molecular Formula: $C_{22}H_{25}N_7O_5$

Molecular Weight: 467.48

Target: Antifolate

Pathway: Cell Cycle/DNA Damage

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Edatrexate (CGP 30694), as known as 10-Ethyl-10-deazaaminopterin, is Methotrexate (HY-14519) analog, exhibits antitumor activity against MTX-resistant tumors. Edatrexate is an antifolate antimetabolite, can be used for reasearch of non-small-cell lung cancer, breast cancer, non-Hodgkin's lymphoma, and cancer of the head and neck[1][2].

In Vivo

Edatrexate (0.14 g/kg and 0.21 g/kg; i.p.; twice weekly×3 or weekly×3) exerts potent efficacy against advanced metastatic disease in tumor-bearing mice, better than MTX[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Murine models of advanced metastatic disease (including E0771 mammary adenocarcinoma, T241 fibrosarcoma, Lewis lung carcinoma, B16 melanoma, or C38 colon carcinoma)[2]
Dosage:	0.14 g/kg and 0.21 g/kg
Administration:	Intraperitoneal injection; 0.14 g/kg twice weekly for 3 weeks and 0.21 g/kg weekly for 3 weeks; added Ca leucovorin (LCV) 16, 20, 24 h after Edatrexate treatment
Result:	Increased survival of tumor-bearing mice. Showed markedly therapeutic effectiveness against advanced metastatic disease in high-dose regimen with delayed LCV rescue.

REFERENCES

[1]. Grant SC, et al. Edatrexate, an antifolate with antitumor activity: a review. Cancer Invest. 1993;11(1):36-45.

[2]. Sirotnak FM, et al. Markedly improved efficacy of edatrexate compared to methotrexate in a high-dose regimen with leucovorin rescue against metastatic murine solid tumors. Cancer Res. 1993 Feb 1;53(3):587-91.

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

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