

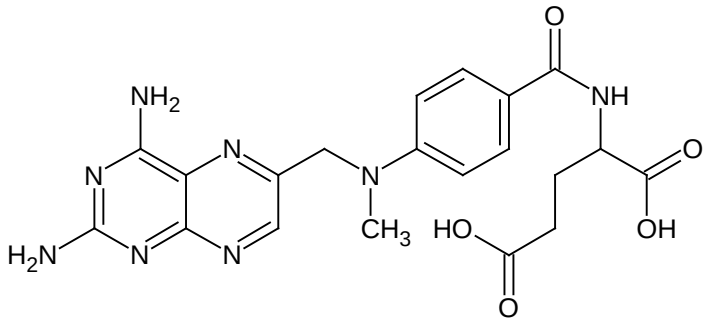
藥學科技(二)報告-

Scifinder 檢索

指導老師：吳建德

學生：**b303098168** 蔡依芸

搜尋題目：methotrexate 的合成



搜尋結果

使用結構搜尋，將 methotrexate 結構畫出搜尋，排序方式選擇以引用次數排列，找到引用次數最多的文章為 Catalucci, Enrico 發表於 1979-02-22 的專利 DE2741383 (A1)，除了在德國申請了專利，此外此作者也在瑞士、美國申請了專利 CH630380 (A5), US4224446 (A)

1. Methotrexate

By: Catalucci, Enrico
Assignee: Lonza A.-G., Switz.

The title compd. (I) was prepd. by the condensation of 2,4,5,6-tetraaminopyrimidine with MeCOCHCl₂ in the presence of NaHSO₃ at pH 3.5-5 and 10-100° to give II (R = H), which was brominated with Br to II (R = Br); reaction of the bromide with 4-MeNHC₆H₄CONHCH(CO₂H)CH₂CH₂CO₂H or its Ba salt gave I.

I

II

Patent Information

Patent No.	Kind	Date	Application No.	Date
DE 2741383	A1	Feb 22, 1979	DE 1977-2741383	Sep 14, 1977
CH 630380	A5	Jun 15, 1982	CH 1977-9894	Aug 12, 1977
US 4224446	A	Sep 23, 1980	US 1978-926009	Jul 19, 1978

Priority Application

CH 1977-9894	A	Aug 12, 1977
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Feb 22, 1979
DE 2741383
A1

Application
Sep 14, 1977
DE 1977-2741383

Priority
Aug 12, 1977
CH 1977-9894

Source
Ger. Offen.
15 pp.
Patent
1979
CODEN: GWXXBX

Accession Number
1979:204152
CAN 90:204152
CAPLUS

Language
German

DE2741383 (A1)

Bibliographic data

Description

Claims

Mosaics

Original document

Cited documents

Citing documents

INPADOC legal status

INPADOC patent family

Quick help

→ What does A1, A2, A3 and B stand for after a publication number?

→ What happens if I click on "In my patents list"?

→ What happens if I click on the "Register" button?

→ Why are some sidebar options deactivated for certain

Bibliographic data: DE2741383 (A1) — 1979-02-22

★ In my patents list ↗ Register → Report data error 🖨 Print

VERFAHREN ZUR HERSTELLUNG VON METHOTREXAT

Page bookmark [DE2741383 \(A1\) - VERFAHREN ZUR HERSTELLUNG VON METHOTREXAT](#)

Inventor(s): CATALUCCI ENRICO DR ±

Applicant(s): LONZA AG ±

Classification: - international: [C07D475/08](#); (IPC1-7): C07D475/08
- European: [C07D475/08](#)

Application number: DE19772741383 19770914

Priority number(s): CH19770009894 19770812

Also published as: [CH630380 \(A5\)](#) [US4224446 \(A\)](#)

Abstract not available for **DE2741383 (A1)**

Chemical Structure substructure > substances (371) > 59-05-2 > get references (44) > get substances (7) > 59-05-2

Substance Detail

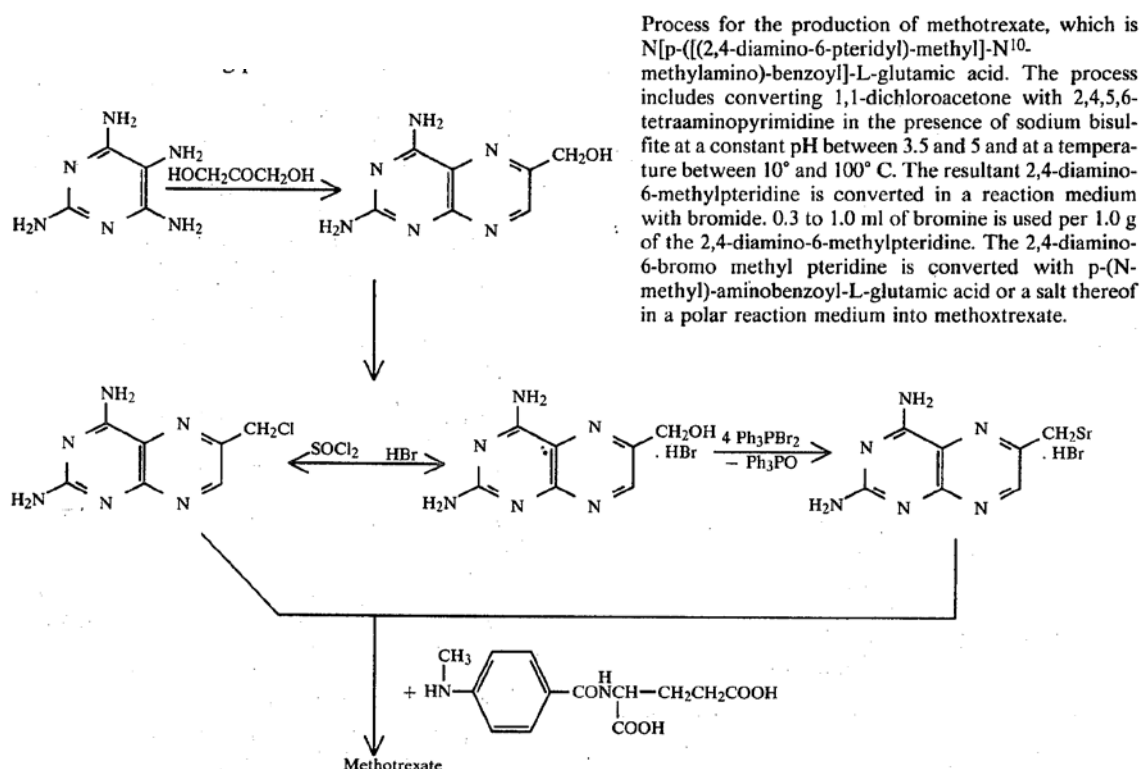
CAS Registry Number: 59-05-2
 $C_{20}H_{22}N_6O_5$
 L-Glutamic acid, N-[4-[[[(2,4-diamino-6-pteridyl)methyl]methylamino]benzoyl]-L-(-)-(8Cl); (+)-Amethopterin; 4-Amino-10-methylfolic acid; 4-Amino-N10-methylpteroylglutamic acid; Amethopterin; Amethopterine; Antifolan; CL 14377; EMT 25299; Emteaxate; Emthexate PF; Emteaxate; L-Amethopterin; L-Methotrexate; Ledertrexate; MTX; Metatrexan; Methotrexat-Ebewe; Methotrexate; Methotrexate; Methyloaminopterin; Mexate; N-[p-[[[2,4-Diamino-6-pteridyl)methyl]methylamino]benzoyl]-L-(+)-glutamic acid; NSC 740; R 9985; Rheumatrex; Trexall

Deleted CAS Registry Numbers: 1082707-84-3

~20,227 References

Chemical structure of Methotrexate is shown, with absolute stereochemistry indicated.

methotrexate 的合成



心得

我認為這次介紹的 **scifinder** 功能真得很強大，不僅可以找專利，還可以找期刊內容，而且還可以用結構式來搜尋，這個功能真得很好玩，當有不知名的結構或是想更了解以支成分結構時，就可以用 **scifinder** 找找看，輸入結構後，它就會跳出許多和這個結構式相關的內容，不用在一般網站上搜尋半天，搞不好還是做白功。最近上藥化課時，聽到老師說他會用 **scifinder** 尋找做 **paper** 的靈感來源等等之類的話題，我才知道這真的很好用，後來我看它的說明書還發現，還可以找相似結構，這樣真是太方便了，因為有時結構會有共振的情形發生，不可能一次畫完，這時 **scifinder** 就能把這些結構都找出來，讓搜尋的人省了不少時間，以後要做報告的話，又多了一樣好用的工具了。