

Title (en)  
4-OXA AND 4-THIA STEROIDS

Title (de)  
4-OXA- UND 4-THIA-STEROIDE

Title (fr)  
STEROIDES 4-OXA ET 4-THIA

Publication  
**EP 0858455 A4 20000412 (EN)**

Application  
**EP 96936811 A 19961022**

Priority  

- GB 9602905 A 19960213
- US 9616883 W 19961022
- US 600195 P 19951026

Abstract (en)  
[origin: WO9715564A1] The compounds of the present invention are those of structural formula (I) wherein X is oxygen or sulfur. Pharmaceutical compositions and methods of use of the compounds in the treatment of hyperandrogenic conditions are disclosed. In addition, the combination of the compounds with other active agents such as finasteride, minoxidil and retinoic acid or a derivative thereof is disclosed.

IPC 1-7  
**C07D 311/78**; **C07D 335/04**; **C07J 73/00**; **A61K 31/35**; **A61K 31/38**

IPC 8 full level  
**A61K 31/00** (2006.01); **A61K 31/58** (2006.01); **A61P 5/28** (2006.01); **C07J 73/00** (2006.01)

CPC (source: EP)  
**A61P 5/28** (2017.12); **C07J 73/003** (2013.01); **C07J 73/006** (2013.01)

Citation (search report)  

- [X] US 3644421 A 19720222 - CROSS ALEXANDER D
- [X] EP 0298652 A2 19890111 - MERCK & CO INC [US]
- [A] DE 1805857 A1 19690626 - HOFFMANN LA ROCHE
- See references of WO 9715564A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)  
**WO 9715564 A1 19970501**; AU 713582 B2 19991202; AU 7464496 A 19970515; CA 2233966 A1 19970501; EP 0858455 A1 19980819; EP 0858455 A4 20000412; JP H11513981 A 19991130

DOCDB simple family (application)  
**US 9616883 W 19961022**; AU 7464496 A 19961022; CA 2233966 A 19961022; EP 96936811 A 19961022; JP 51671197 A 19961022