

Scifinder& Innovation 電子資料庫使用報告

系級:藥三 B

姓名:胡智鈞

學號:B405096072

Scifinder :

- 使蒂諾斯(stilnox)為常見的鎮靜安眠藥，家裡也有長輩在使用，所以這次報告選擇 stilnox 作為主題

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Research Topic Candidates

Research Topic Candidates	References
24 references were found containing "stilnox" as entered.	24
259 references were found containing the concept "stilnox".	259

Get References

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https://scifinder.cas.org/scifinder/view/scifinder/scifinderExplore.jpf

Select All Deselect All Sort by: Accession Number

Answers per Page [20] 1 2

Display: [List Icon] [Table Icon]

1. Effects of stilnox on QUISI parameters in patients with insomnia
By Yao, Peifen; Chen, Xingshi; Zhu, Yisheng; Xiao, Zeping; Gao, Xiaoli; Wang, Jijun; Zhang, Mingde; Lou, Feiyang; Tang, Yunxiang; Chen, Chong
From Shanghai Jiaotong Daixue Xuebao, Youxueban (2009), 29(9), 1074-1076. Language: Chinese, Database: CAPLUS
The aim of this paper is to investigate the effects of Stilnox on brain elec. activity in patients with insomnia using QUISI sleep instrument. QUISI sleep instrument was employed for 32 patients with insomnia for 3 consecutive nights, among whom 10 mg Stilnox was administered before sleep on the third night, and the changes of QUISI parameters were obsd. after Stilnox administration. Another 28 normal controls were selected, and received one night of acclimatization and the other night of baseline QUISI monitoring. There were significant differences in QUISI parameters between patients with...
Substances Reactions Citings Full Text Link Comments Tags

2. Effects of prolonged-release melatonin, zolpidem, and their combination on psychomotor functions, memory recall, and driving skills in healthy middle aged and elderly volunteers
By Otmari, S.; Demazieres, A.; Stanier, C.; Jacob, N.; Nir, T.; Zisapel, N.; Stanier, L.
From Human Psychopharmacology (2008), 23(8), 693-705. Language: English, Database: CAPLUS
Background: Melatonin is an important regulator of the sleep-wake cycle. A prolonged-release formulation of melatonin (PR-M) that essentially mimics the profile of the endogenous prodn. of the hormone is effective in the treatment of insomnia in patients aged 55 years and older. Because hypnotics result in impairments of various cognitive skills, it is important to examine the cognitive effects assocd. with the use of PR-M. Objectives and methods: The effects of therapeutic oral doses of PR-M (2 mg), zolpidem (10 mg) and their combination administered at bedtime on cognitive functions in he...
Substances Reactions Citings Full Text Link Comments Tags

3. The effects of stilnox on quality of life in patients with hypertension and insomnia
By He, Zhi-min; Liang, Yao-rong
From Zhongguo Jieang Yiyao (2007), 14(9), 1457-1459. Language: Chinese, Database: CAPLUS
The aim was to explore the effects of Stilnox on the blood pressure and quality of life (QOL) in patients with hypertension and insomnia. 80 Patients with hypertension and insomnia were received amlodipine (5mg qd) as control group and amlodipine (5mg qd) plus stilnox (10mg qn) as treatment group in visit order for 8 wk follow up. Values of blood pressure were recorded and QOL data were assessed at the beginning and end of therapy with questionnaire. Results Blood pressure was significantly reduced in both groups (P < 0.01), and the redn. of blood pressure in treatment group was more signi...
Substances Reactions Citings Full Text Link Comments Tags

4. A Simple and Rapid Method for the Identification of Zolpidem Carboxylic Acid in Urine
By Lewis, John H.; Vine, John H.
From Journal of Analytical Toxicology (2007), 31(4), 195-199. Language: English, Database: CAPLUS
Zolpidem is a non-benzodiazepine hypnotic that has been implicated in both drug-facilitated sexual assault and drink spiking. Detection of the drug in urine is...
Substances Reactions Citings Full Text Link Comments Tags

Author Name

Click bar to view only those references within the current answer set

Boghetich Giancarlo	2
Bourdin H	2
Davenne D	2
Franco Massimo	2
Guillard J C	2
Kantelip J P	2
Latrofa Andrea	2
Liso Gaetano	2
Lopedota Angela	2
Magnin P	2

Show More

Categorize

More detailed analysis based on CAS

- 此類鎮靜安眠藥為 Z drug，又稱為 Non-Benzodiazepine receptor agonists，因為其作用位置與 Benzodiazepine 類藥物相同，但選擇性較高且不會產生耐藥性及戒斷現象，因此目前臨床上經常使用。

1. Effects of stilnox on QUISI parameters in patients with insomnia

By: Yao, Feifen; Chen, Xingshi; Zhu, Yisheng; Xiao, Zeping; Guo, Xiedie; Wang, Jijun; Zheng, Mingqiao; Lou, Feiyang; Tang, Yunxiang; Chen, Chong

The aim of this paper is to investigate the effects of Stilnox on brain elec. activity in patients with insomnia using QUISI sleep instrument. QUISI sleep instrument was employed for 32 patients with insomnia for 3 consecutive nights, among whom 10 mg Stilnox was administered before sleep on the third night, and the changes of QUISI parameters were obsd. after Stilnox administration. Another 28 normal controls were selected, and received one night of acclimatization and the other night of baseline QUISI monitoring. There were significant differences in QUISI parameters between patients with insomnia and normal controls before Stilnox administration ($P < 0.05$ or $P < 0.01$). Compared with those before Stilnox administration, patients with insomnia had improved sleep efficiency $[(87.7 \pm 7.3)\% \text{ vs } (91.4 \pm 3.8)\%]$, reduced awake time $[(40.5 \pm 15.5) \text{ min vs } (22.1 \pm 6.1) \text{ min}]$, reduced S1 $[(25.9 \pm 18.3)\% \text{ vs } (59.1 \pm 4.7)\%]$ and shortened sleep latency $[(35.7 \pm 17.0) \text{ min vs } (21.1 \pm 11.0) \text{ min}]$ after Stilnox administration ($P < 0.05$ or $P < 0.01$). Stilnox not only can improve the subjective evaluation on sleep, but also have effects on brain elec. activity in night in patients with insomnia.

Indexing

Pharmacology (Section 1-11)

Concepts

Human
Insomnia
Hypnotics and Sedatives
effects of stilnox on QUISI parameters in patients with insomnia

Substances

99294-93-6 Stilnox
effects of stilnox on QUISI parameters in patients with insomnia
Pharmacological activity; Therapeutic use; Biological study; Uses

Supplementary Terms

stilnox; insomnia; QUISI; parameter

Tags

Shanghai Jiaotong Daxue Xuebao, Yixueban
Volume 29
Issue 9
Pages 1074-1076
Journal
2009
CODEN: SJDX88

Company/Organization

Shanghai Mental Health Center, School of Medicine
Shanghai Jiaotong University
Shanghai, Peop. Rep. China
200030

Accession Number

2009:1619255
CAN 152:493191
CAPLUS

Publisher

Shanghai Jiaotong Daxue Xuebao Yixueban Bianjibu

Language

Chinese

- 用 Zolpidem(學名)重新查詢

CAS Registry Number: 99294-93-6

$C_{19}H_{21}N_3O$; $C_{19}H_{21}N_3O$

Imidazo[1,2-a]pyridine-3-acetamide, N,N,6-trimethyl-2-(4-methylphenyl)-, (2R,3R)-2,3-dihydroxybutanedioate (2:1)

Imidazo[1,2-a]pyridine-3-acetamide, N,N,6-trimethyl-2-(4-methylphenyl)-, [(R)-(R'),(R'')]-2,3-dihydroxybutanedioate (2:1); Ambien; Ivaldel; Niotel; SL 800750-23N; Stilnox; Zolfresh; Zolpidem hemitartrate; Zolpidem tartrate

Chemical Structure 1: 82626-48-0
 $C_{18}H_{19}N_3O$

Chemical Structure 2: 87-69-4
 $C_{11}H_{15}O_3$

Absolute stereochemistry.

Source of Registration: US Adopted Names Council (USAN)

~244 References

Document Types: Conference, Journal, Patent

- structure explore

SciFinder - Explore Substances - Windows Internet Explorer

https://scifinder.cas.org/scifinder/servlet/Explore.jsf

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Explore Substances

Chemical Structure
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Molecular Formula
Substance Identifier

Substance Identifier(s) Search

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Examples:
30-00-0
009815
Acetaminophen

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No answer sets
Import

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No profiles exist

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- 此藥常做成鹽類劑型

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zolpidem tartrate

Polyoxyalkylenes
design and in vitro evaluation of multiparticulate floating drug delivery system of zolpidem tartrate
Modifier or additive use; Therapeutic use; Biological study; Uses

Drug delivery systems
effervescent; design and in vitro evaluation of multiparticulate floating drug delivery system of zolpidem tartrate

Controlled-release drug delivery systems
pellets; design and in vitro evaluation of multiparticulate floating drug delivery system of zolpidem tartrate

144-55-8 Sodium bicarbonate, biological studies
9003-39-8 Polyvinylpyrrolidone
9004-64-2 Hydroxypropyl cellulose
9004-65-3 HPMC
9010-60-2 Eudragit NE 30D
99294-93-6 Zolpidem tartrate

Language
English

design and in vitro evaluation of multiparticulate floating drug delivery system of zolpidem tartrate
Physical, engineering or chemical process; Properties; Therapeutic use; Biological study; Process; Uses

● 物性與化性

Scifinder - CAS Registry Number: 0024-73-4 (Windows Internet Explorer)
<https://scifinder.cas.org/scifinder/view/scifinder/scifinderExplore.jpf>

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Experimental Properties: Chemical Mechanical Spectra Structure-related Thermal

Chemical Properties	Value	Condition	Note	Top
Solubility	See full text		(5)CAS	
Mechanical Properties	Value	Condition	Note	Top
Compressibility	See full text		(1)CAS	
Spectra Properties	Value	Condition	Note	Top
IR Absorption Spectrum	See full text		(3)CAS	
Structure-related Properties	Value	Condition	Note	Top
Crystal Structure	See full text		(2)CAS	
Particle Size	See full text		(1)CAS	
Specific Surface Area	See full text		(1)CAS	
X-Ray Diffraction Pattern	See full text		(2)CAS	
Thermal Properties	Value	Condition	Note	Top
Melting Point	196 °C		(4)NLM	

(1) Emshanova, S. V.; Pharmaceutical Chemistry Journal 2007, V41(12), P659-661CAPLUS
 (2) Halasz, Ivan; Journal of Pharmaceutical Sciences 2010, V99(2), P871-879CAPLUS
 (3) El Zeany, B. A.; Journal of Pharmaceutical and Biomedical Analysis 2003, V33(3), P393-401CAPLUS
 (4) "Hazardous Substances Data Bank" data were obtained from the National Library of Medicine (US)
 (5) Hays, Patrick A.; Journal of Forensic Sciences 2005, V50(6), P1342-1360CAPLUS

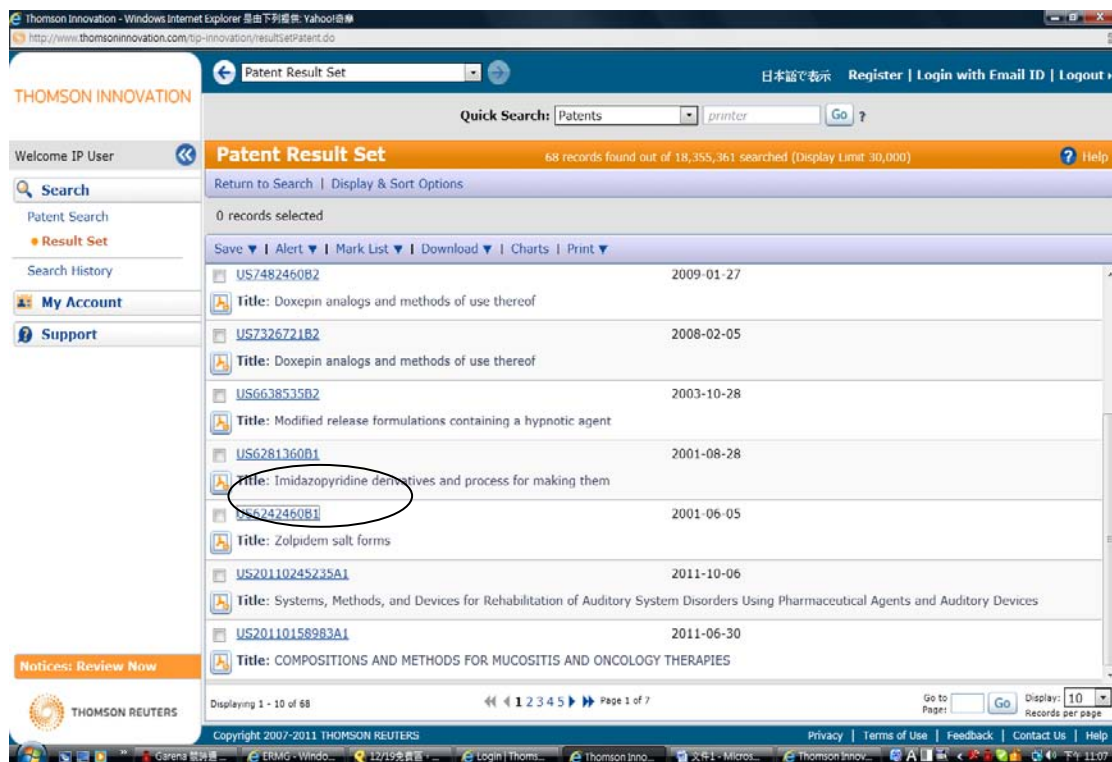
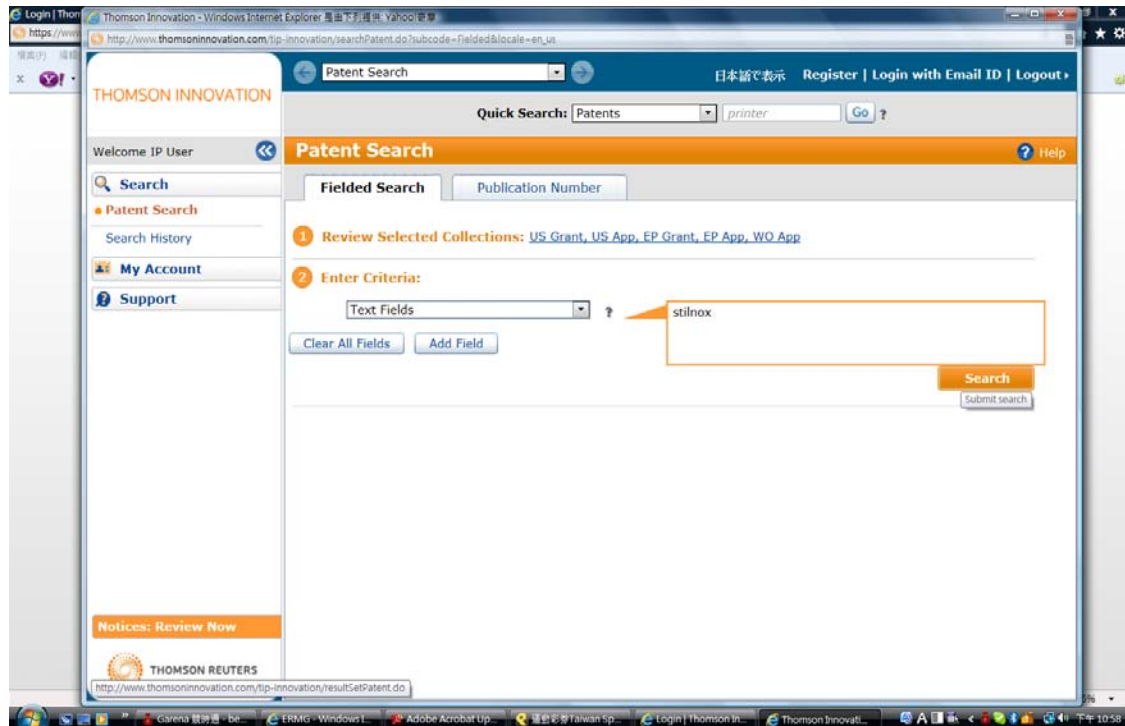
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● 心得：

這次利用 scifinder 所找尋的藥物為 stilnox，會選擇此藥物的原因主要是發現現代人因為壓力飽受失眠的困擾，因此想更深入了解使蒂諾斯。透過 scifinder 我們可以瞭解此藥物的化學結構、物化性質、合成步驟，甚至產率也可以清楚的查詢到，這對於臨床工作者，無論是醫院擔任藥師的或是在藥廠工作的，還有在求學階段的藥學生們都有極大的幫助！

Thomson innovation

- 同樣以使蒂諾斯查詢專利號



- 這個藥在十年前獲得專利

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http://www.thomsoninnovation.com/tip-innovation/recordview.do?pager.offset=7&recordCount=8&parentId=null&totalRecords=68&fromRecordView=false&dataSource=T3&category=PAT&record=8&resultId=21555889&dataBaseId=...

Patent Record View - US6242460B1

Record View: Patent US6242460B1

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DWPI Title ?
New zolpidem salts are hypnotics, useful for inducing or maintaining sleep in mammals.

Original Title ?
Zolpidem salt forms

Abstract ?
Zolpidem salts having improved physical stability do not exhibit a melting endotherm corresponding to zolpidem free base when heated at 5° C. /minute from about 25° C. to 250° C. The salts are generally easy to reproduce, even on an industrial scale and are easier to handle due to the increased stability than the known zolpidem tartrate. The zolpidem salts are typically pharmaceutically acceptable salts and can be used in formulating pharmaceutical compositions and in pharmaceutical uses; e.g. as a hypnotic.

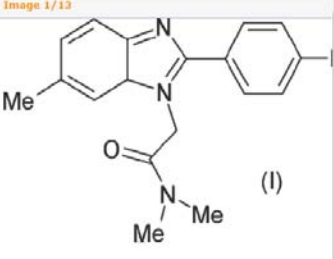
First Claim ?
1. A solid-phase zolpidem salt form having sufficient physical stability that upon heating from about 20° C. to about 250° C. at a rate of about 5° C./minute does not exhibit a melting endotherm that corresponds to zolpidem free base.

Assignee / Applicant ?
Standardized: SYNTHON BV
Original: Synthron BV, NL

Inventor ?

Record 8 of 68

Images
Image 1/13



1 2 3 4

- 做成鹽類型也有專利保護

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Patent Record View - US6242460B1

Record View: Patent US6242460B1

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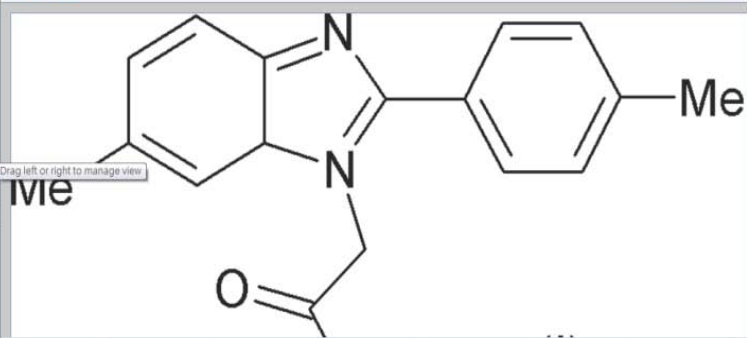
DWPI Title ?
New zolpidem salts are hypnotics, useful for inducing or maintaining sleep in mammals.

Original Title ?
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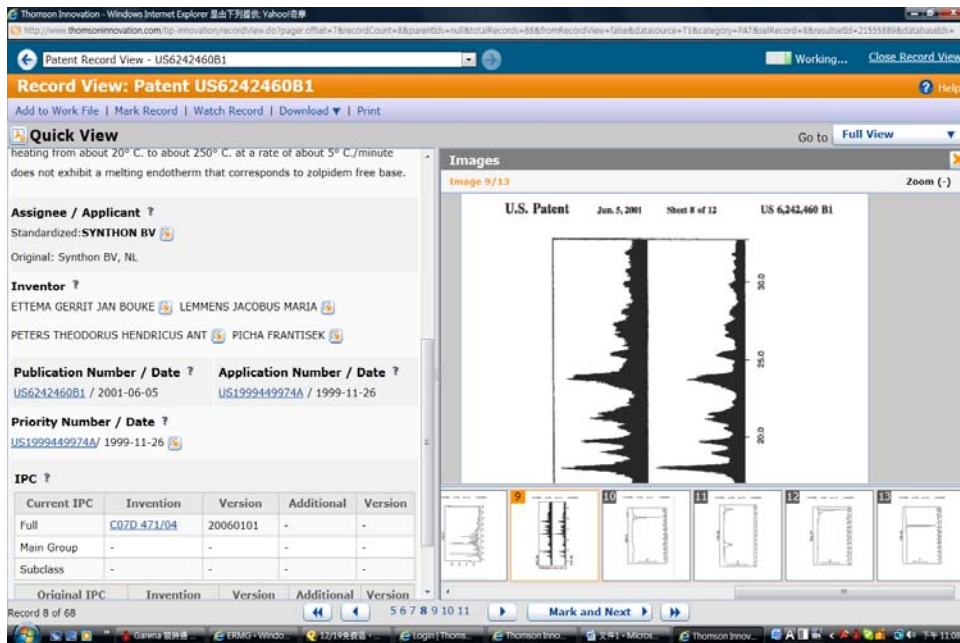
Abstract ?
Zolpidem salts having improved physical stability do not exhibit a melting endotherm corresponding to zolpidem free base when heated at 5° C. /minute from about 25° C. to 250° C. The salts are generally easy to reproduce, even on an industrial scale and are easier to handle due to the increased stability than the known zolpidem tartrate. The zolpidem salts are typically pharmaceutically acceptable salts and can be used in formulating pharmaceutical compositions and in pharmaceutical uses; e.g. as a hypnotic.

First Claim ?
1. A solid-phase zolpidem salt form having sufficient

Images
Image 1/13



1 2 3 4 5 6 7 8



● 心得：

當我們有發明或創作，為了保護其正當權益，即可向智慧財產局提出申請，經過審查認為符合專利法之規定，而授與專利權，給予物品專利權人在一定期間享有專有排除他人未經其同意而製造、販賣、為販賣之要約、使用或為上述目的而進口該物品之權，這種權利就是專利權，專利是一個政府賦予發明人一定時間的排他權利。美國和大部分國家一樣，發明(藥品)專利的期限為 20 年。

而這次課程除了讓我們學習查詢產品的專利外，我認為更重要的是老師在課堂上說的那些話。身為藥學系的學生，畢業後不是只有藥廠和醫院可以發展，事實上我們應該要把眼光放遠，比如說專利就是一個非常好的機會，它已經成為了現在社會的趨勢，我們應該要思考該如何將所學結合更多新的點子，努力去創新！