

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: NDA 20-571/S-008

CHEMISTRY REVIEW(S)

CHEMIST'S REVIEW		1. ORGANIZATION HFD-150 DODP		2. NDA NUMBER 20-571	
3. NAME AND ADDRESS OF APPLICANT (City and State) Pharmacia & Upjohn 700 Portage Road Kalamazoo, MI 49001-0199 Attn: John S. Walker, Regulatory Affairs Manager				4. AF NUMBER	
6. NAME OF DRUG Camptosar Injection		7. NONPROPRIETARY NAME Irinotecan hydrochloride injection		5. SUPPLEMENT(S) NUMBER(S) & DATES(S) SE ₁ -008 17-APR-1998	
8. SUPPLEMENT PROVIDES FOR: treatment of patients with metastatic carcinoma of the colon or rectum whose disease has recurred or progressed following 5-fluorouracil based therapy.				9. AMENDMENTS DATES BC 15-July -1998	
10. PHARMACOLOGICAL CATEGORY Antineoplastic agent		11. HOW DISPENSED RX <u>XX</u> OTC <u> </u>		12. RELATED IND/NDA/DMF	
13. DOSAGE FORM(S) Injection		14. POTENCY 20 mg/mL as trihydrate salt (100 mg/5 mL & 40 mg/2 mL)			
15. CHEMICAL NAME AND STRUCTURE (4S)-4,11-diethyl-4-hydroxy-9-[(4-piperidinopiperidino)carbonyloxy]-1H-pyranol[(3',4':6,7)indolizino[1,2-b]quinoline-3,14(4H,12H)dione hydrochloride trihydrate <chem>C33H38N4O6.3H2O</chem>				16. RECORDS AND REPORTS CURRENT YES <u> </u> NO REVIEWED YES <u> </u> NO	
17. COMMENTS 1. Irinotecan hydrochloride (CPT-11) is claimed, per se, in US Patent 4,604,463 which expires 15-Aug-2007. This supplement is in support of the transition from the present accelerated approval status under subpart H regulations to full approval status for the current second line indication for the drug. 3. The amendment dated July 15, 1998 contains CMC information confirming the clinical supplies used in the European studies are equivalent to the product marketed by Pharmacia & Upjohn in the US. cc: Orig. NDA 20-571 HFD-150/Div File HFD-150/RPBarron HFD-150/PFQuinn HFD-150/RHWood R/D init. by <u>RHWood</u> 10-6-98					
18. CONCLUSIONS AND RECOMMENDATIONS The CMC aspects of this supplement are considered acceptable and approval is recommended. Minor editorial corrections to the proposed labeling are required as noted in the review notes. As required of the manufacturing facilities providing clinical supplies, a CGMP inspection of the _____ has been requested "retrospectively." This facility has never been inspected for finished product manufacture by the Agency. This inspection remains pending but should not delay approval, if the product is otherwise deemed safe and efficacious. The product manufactured by _____ used in the trials was terminally sterilized as opposed to sterilization by _____ of the product currently approved for marketing in the US. The applicant should be requested to provide an explanation of this difference and justification of the continued use of aseptic techniques.					
EVIEWER NAME Robert P. Barron		SIGNATURE <u>RSI</u>		DATE COMPLETED 10/2/98	
DISTRIBUTION ORIGINAL JACKET <u>XX</u> DIVISION FILE <u>XX</u> REVIEWER <u>XX</u> CSO <u>XX</u> SUP. CHEMIST <u>XX</u>					

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:NDA 20-571/S-008

PHARMACOLOGY REVIEW(S)

Division of Oncology Drug Products, HFD-150

REVIEW AND EVALUATION OF PHARMACOLOGY AND TOXICOLOGY DATA
NDA Supplement Review, Review # 2

NDA No.: 20-571 SE #: 008 Type: SE

Date(s) of Submission: NDA dated: 4/17/98
CDR stamp date: 4/22/98

Information to be Conveyed to Sponsor: Yes (), No (X)

Reviewer: Sandip K. Roy, Ph.D.

Date Review Completed: 9/14/98

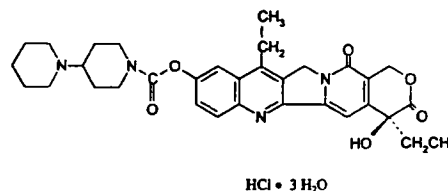
Sponsor: Pharmacia & Upjohn Company
Kalamazoo, MI

Drug Name: Camptosar® (Irinotecan Hydrochloride) Other names: CPT-11, PNU 101440E

Chemical Name: (4S)-4,11-diethyl-4-hydroxy-9-[(4-piperidinopiperidino)carbonyloxy]-1H-pyrano[3,4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H) dione hydrochloride.

CAS Number: 100286-90-6

Structure:



Molecular Weight: 677.1929 (C₃₃H₄₅ClN₄O₉)

Related INDs/NDAs/DMFs: INDs

Class: Topoisomerase I inhibitor

Indication: Metastatic carcinoma of the colon or rectum in patients whose disease has recurred or progressed following 5-FU-based chemotherapy

Clinical Formulation:	Format	Ingredient	Amount
	Vial	Camptosar	100 mg
		Sorbitol	mg
		Lactic acid, USP	mg
		Water	ml (pH 3-4)

Route of Administration and dosage form: Intravenous injection

Approved Dosage: 125 mg/m² (90 min IV infusion) administered once weekly for 4 weeks followed by 2 weeks rest

Note: Portions of this review were excerpted directly from the sponsor's submission.

OVERALL SUMMARY AND EVALUATION

Sponsor has indicated (Amendment 1 to supplement 008) that there is no additional pharmacology/toxicology information relevant to this supplemental NDA. Please refer to the original review by Paul A. Andrews, Ph.D. (NDA 20-571, review dated: 5/24/96), for the complete pharmacology/toxicology review of the original Camptosar NDA.

RECOMMENDATION Since no additional pharmacology/toxicology information was necessary or submitted in this sNDA, this supplement is considered approvable from a pharmacology perspective.

a) Comments for further studies: none

b) Points discussed with Medical Officer: none

NDA issues: n/a

LABELING REVIEW

Due to the absence of any new pharmacology/toxicology information regarding labeling issues, we do not recommend any changes to the labeling.

Draft letter, Requests for Sponsor: none

/S/

Sandip K. Roy, Ph.D.
Pharmacologist/Toxicologist

09/14/98
Date

/S/

Paul Andrews, Ph.D.
Pharmacology Team Leader

09/14/98
Date

Original IND/NDA/DMF
 c.c. /Division File
 /PAndrews
 /IChico
 /PGuinn
 /SRoy