

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

21-880

CHEMISTRY REVIEW(S)

NDA 21-880
Revlimid™
(Lenalidomide)

Celgene Corporation

Haripada Sarker, Ph.D.
HFD-150 Division of Oncology



N21-880 CR#1

Table of Contents

| | |
|---|----------|
| Table of Contents | 2 |
| Chemistry Review Data Sheet..... | 3 |
| The Executive Summary | 7 |
| I. Recommendations | 7 |
| A. Recommendation and Conclusion on Approvability | 7 |
| B. Recommendation on Phase 4 (Post-Marketing) Commitments, Agreements, and/or Risk Management Steps, if Approvable..... | 7 |
| II. Summary of Chemistry Assessments | 7 |
| A. Description of the Drug Product(s) and Drug Substance(s) | 7 |
| B. Description of How the Drug Product is Intended to be Used..... | 8 |
| C. Basis for Approvability or Not-Approval Recommendation..... | 8 |
| III. Administrative | 8 |
| A. Reviewer's Signature..... | 8 |
| B. Endorsement Block..... | 8 |
| C. CC Block | 8 |
| Chemistry Assessment..... | 9 |

N21-880 CR#1

Chemistry Review Data Sheet

1. NDA 21-880
2. REVIEW #1:
3. REVIEW DATE: 12-05-2005
4. REVIEWER: Haripada Sarker, Ph.D.

6. PREVIOUS DOCUMENTS:

Previous Documents

IND 60,100

—
—
—Document Date

March 31, 2000

—
—
—

1. SUBMISSION(S) BEING REVIEWED:

Submission(s) Reviewed

Original (RRZ-001) -rolling

Amendment (N-000) - Labeling

Amendment (N-000-BC) – DP stability and spec. update

Amendment (N-000-BC) – DP dissolution update

Amendment (N-000-BC) – DS and DP Stability

Amendment (N-000)C – DP Labeling

Document Date

December 22, 2004

April 7, 2005

May 17, 2005

August 25, 2005

September 30, 2005

October 27, 2005

7. NAME & ADDRESS OF APPLICANT:

| | |
|-----------------|--------------------------------------|
| Name: | Celgene Corporation |
| Address: | 86 Morris Avenue Summit, NJ 07901 |
| Representative: | Gretchen Toolan |

N21-880 CR#1

Telephone:

908-673-9551

8. DRUG PRODUCT NAME/CODE/TYPE:

- a) Proprietary Name: Revlimid™
- b) Non-Proprietary Name: Lenalidomide
- c) Code Name/#: CC-5013, CDC-501, Revlimid
- d) Chem. Type/Submission Priority (ONDC only):
 - Chem. Type: 1
 - Submission Priority: P
- e) Proposed Trade Name: Revlimid™

9. LEGAL BASIS FOR SUBMISSION: N/A

10. PHARMACOL. CATEGORY: Transfusion-Dependent Anemia Due to Low- or Intermediate-1-Risk Myelodysplastic Syndroms Associated with a Deletion 5q Cytogenetic Abnormality.

11. DOSAGE FORM: Capsule

12. STRENGTH/POTENCY: 5 mg and 10 mg

13. ROUTE OF ADMINISTRATION: Oral

14. Rx/OTC DISPENSED: Rx OTC

15. SPOTS (SPECIAL PRODUCTS ON-LINE TRACKING SYSTEM):

SPOTS product – Form Completed

Not a SPOTS product

16. CHEMICAL NAME, STRUCTURAL FORMULA, MOLECULAR FORMULA, MOLECULAR WEIGHT:

Structure:

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.