

Food and Drug Administration Silver Spring MD 20993

NDA 021673/ S-010

SUPPLEMENT APPROVAL

Genzyme Corporation Attention: Darlene Noci, MLA, RAC Director, Regulatory Affairs 55 Cambridge Parkway Cambridge, MA 02142

Dear Darlene Noci:

Please refer to your Supplemental New Drug Application (sNDA) dated December 18, 2008, received December 18, 2008, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act (FDCA) for Clolar® (clofarabine) Injection.

We acknowledge receipt of your amendments dated May 5, 2011, April 19, 2011, December 3, and 17, 2010, April 15, 2010 and December 18, 2008. We acknowledge receipt of your annual report dated February 28, 2011 stating sale of 4-vial package has been discontinued.

This Prior Approval supplemental new drug application provides for an updated single vial package, with package insert, carton and vial labels featuring Genzyme's new requested logo.

We have completed our review of this supplemental application, as amended. It is approved, effective on the date of this letter, for use as recommended in the enclosed, agreed-upon labeling text.

CONTENT OF LABELING

As soon as possible, but no later than 14 days from the date of this letter, submit, using the FDA automated drug registration and listing system (eLIST), the content of labeling [21 CFR 314.50(l)] in structured product labeling (SPL) format, as described at http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/default.htm, that is identical to the enclosed labeling (text for the package insert, text for the patient package insert, Medication Guide) and include the labeling changes proposed in any pending "Changes Being Effected" (CBE) supplements. Information on submitting SPL files using eLIST may be found in the guidance for industry titled "SPL Standard for Content of Labeling Technical Qs and As" at

http://www.fda.gov/downloads/DrugsGuidanceComplianceRegulatoryInformation/Guidances/UCM072392.pdf.

The SPL will be accessible from publicly available labeling repositories.

Also within 14 days, amend all pending supplemental applications for this NDA, including pending "Changes Being Effected" (CBE) supplements, for which FDA has not yet issued an action letter, with the content of labeling [21 CFR 314.50(l)(1)(i)] in MS Word format that includes the changes approved in this supplemental application.

CARTON AND IMMEDIATE CONTAINER LABELS

Submit final printed carton and container labels that are identical to the enclosed carton and immediate container labels and package insert submitted on DATE, as soon as they are available, but no more than 30 days after they are printed.

Please submit these labels electronically according to the guidance for industry titled "Providing Regulatory Submissions in Electronic Format – Human Pharmaceutical Product Applications and Related Submissions Using the eCTD Specifications (June 2008)." Alternatively, you may submit 12 paper copies, with 6 of the copies individually mounted on heavy-weight paper or similar material. For administrative purposes, designate this submission "Product Correspondence – Final Printed Carton and Container Labels for approved NDA 21673/S010." Approval of this submission by FDA is not required before the labeling is used.

REPORTING REQUIREMENTS

We remind you that you must comply with reporting requirements for an approved NDA (21 CFR 314.80 and 314.81).

If you have any questions, contact Lisa Skarupa, Regulatory Project Manager, at (301) 796-2219.

Sincerely,

{See appended electronic signature page}

Ann Farrell, M.D.
Acting Division Director
Division of Hematology Products
Center for Drug Evaluation and Research

ENCLOSURE(S): Content of Labeling, Carton and Container Labeling

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.
/s/
ANN T FARRELL 06/10/2011