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Attorneys for Plaintiff  
14 GILEAD SCIENCES, INC.

15  
16 UNITED STATES DISTRICT COURT  
17 NORTHERN DISTRICT OF CALIFORNIA

18 GILEAD SCIENCES, INC.,  
19 Plaintiff,  
20 v.  
21 MERCK & CO, INC., MERCK SHARP &  
DOHME CORP. and ISIS  
22 PHARMACEUTICALS, INC.  
23 Defendants.

Case No.  
**GILEAD'S COMPLAINT FOR  
DECLARATORY JUDGMENT**  
  
**DEMAND FOR JURY TRIAL**

1 Plaintiff Gilead Sciences, Inc. (“Gilead” or “Plaintiff”), for its Complaint against  
2 Defendants Merck & Company, Inc. (“Merck & Co.”), Merck Sharp & Dohme Corporation, and  
3 Isis Pharmaceuticals, Inc. (“Isis”) to the best of its knowledge, information and belief, and through  
4 its attorneys, alleges as follows:

5 **NATURE OF THE ACTION**

6 1. This is an action for declaratory judgment of non-infringement and invalidity of  
7 United States Patent Nos. 7,105,499 (“the ’499 patent”) and 8,481,712 (“the ’712 patent”) under  
8 28 U.S.C. §§ 2201 and 2202.

9 **PARTIES**

10 2. Gilead Sciences, Inc. is a company organized and existing under the laws of the  
11 State of Delaware with its principal place of business at 333 Lakeside Drive, Foster City,  
12 California 94404.

13 3. On information and belief, Merck & Co., Inc. is a company organized under the  
14 laws of the State of New Jersey with its principal place of business at One Merck Drive, P.O. Box  
15 100, Whitehouse Station, NJ 08889-0100.

16 4. On information and belief, Merck Sharp & Dohme Corp. is a company organized  
17 under the laws of the State of New Jersey with its principal place of business at One Merck Drive,  
18 P.O. Box 100, Whitehouse Station, NJ 08889-0100.

19 5. On information and belief, Merck Sharp & Dohme Corp. is a subsidiary of Merck  
20 & Co., Inc. (collectively, “Merck”).

21 6. On information and belief, Isis Pharmaceuticals, Inc. is a company organized under  
22 the laws of the State of Delaware with its principal place of business at 2855 Gazelle Court,  
23 Carlsbad, CA 92010.

24 **JURISDICTION AND VENUE**

25 7. This action arises under the Patent Laws of the United States of America, 35 U.S.C.  
26 § 1 *et seq.* This Court has subject matter jurisdiction over the action under 28 U.S.C. §§ 1331 and  
27 1338, based on an actual controversy between Gilead, on the one hand, and Defendants, on the  
28

1 other hand, for claims under the Patent Laws of the United States of America, 35 U.S.C. § 1 *et*  
2 *seq.* Gilead is seeking relief pursuant to the Declaratory Judgment Act, 28 U.S.C. §§ 2201 and  
3 2202.

4 8. This Court has personal jurisdiction over Merck because Merck is registered with  
5 the California Department of State to transact business in California and, upon information and  
6 belief, regularly transacts business in California, including in this judicial district.

7 9. On information and belief, Merck has a place of business at 901 S. California  
8 Avenue, Palo Alto, CA 94304-1104.

9 10. On information and belief, Merck has derived substantial revenue from sales of  
10 pharmaceutical products in California, including sales of at least hundreds of millions of dollars in  
11 2012.

12 11. This Court has personal jurisdiction over Isis because, on information and belief,  
13 Isis has its principal place of business in California, is registered with the California Department  
14 of State to transact business in California, and regularly transacts business in California, including  
15 in this judicial district.

16 12. Venue is proper in this judicial district under 28 U.S.C. §§ 1391(b) and 1400.

17 13. On information and belief, Merck and Isis are each subject to personal jurisdiction  
18 in this judicial district, and thus reside in this judicial district under 28 U.S.C. § 1391(b)(1).

19 14. A substantial part of the events giving rise to this action have occurred in this  
20 judicial district under 28 U.S.C. § 1391(b)(2) because, *inter alia*, Gilead has made the drug at  
21 issue in this action, sofosbuvir, in this judicial district; has prepared the New Drug Application for  
22 sofosbuvir in this district; has conducted clinical trials in this judicial district; maintains  
23 documents in this district; has employees involved in the development of sofosbuvir who reside in  
24 this district; and has plans to advertise, market, offer to sell, and sell sofosbuvir from its corporate  
25 headquarters in this judicial district upon FDA approval.

26 15. In addition, and as detailed below, Merck contacted Gilead about the matters  
27 alleged herein in this judicial district, including two unsolicited telephone calls to a Gilead  
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1 employee in Foster City, CA requesting that Gilead take a license to the '499 and '712 patents,  
2 and Merck's letter to the same Gilead employee in Foster City, CA requesting the same, and  
3 proposing licensing terms, and a deadline to respond.

4 **THE PATENTS-IN-SUIT**

5 16. On September 12, 2006, the '499 patent, entitled "Nucleoside Derivatives as  
6 Inhibitors of RNA-Dependent RNA Viral Polymerase," issued to Steven S. Carroll, David B.  
7 Olsen, Malcolm MacCoss, Balkrishen Bhat, Phillip Dan Cook, Anne B. Eldrup, and Thazha P.  
8 Prakash. A copy of the '499 patent is attached to this Complaint as Exhibit A.

9 17. Merck & Co., Inc. and Isis Pharmaceuticals, Inc. are listed as assignees on the face  
10 of the '499 patent.

11 18. On information and belief, Merck & Co., Inc. has assigned its interest in the '499  
12 patent to Merck Sharp & Dohme Corp.

13 19. On information and belief, Merck and Isis are co-owners of the '499 patent.

14 20. On July 9, 2013, the '712 patent, entitled "Nucleoside Derivatives as Inhibitors of  
15 RNA-Dependent RNA Viral Polymerase," issued to Balkrishen Bhat, Anne B. Eldrup, Thazha P.  
16 Prakash, Phillip Dan Cook, Robert L. LaFemina, Amy L. Simcoe, Carrie A. Rutkowski, and  
17 Mario A. Valenciano. A copy of the '712 patent is attached to this Complaint as Exhibit B.

18 21. Merck Sharp & Dohme Corp. and Isis Pharmaceuticals, Inc. are listed as assignees  
19 on the face of the '712 patent.

20 22. On information and belief, Merck and Isis are co-owners of the '712 patent.

21 **GILEAD'S PENDING NEW DRUG APPLICATION FOR SOFOSBUVIR, A**  
22 **REVOLUTIONARY NEW THERAPY FOR HEPATITIS C**

23 23. Gilead is a research-based biopharmaceutical company that discovers, develops,  
24 and commercializes innovative medicines for life-threatening diseases in areas of unmet medical  
25 need, including treatment for HIV/AIDS, hepatitis, serious respiratory and cardiovascular  
26 conditions, cancer, and inflammation.

1           24.     Hepatitis C virus (“HCV”) is a group of related viruses classified into at least six  
2 distinct HCV genotypes (genotypes 1-6) that are spread by contact with HCV-infected blood and  
3 infect the liver. The prevalence of HCV infection in the U.S. has been estimated between 3.2 and  
4 5.2 million people. Since 2007, there are more deaths in the U.S. due to HCV than HIV. HCV  
5 infection is the cause of half of all liver cancer deaths in the U.S. and the most common indication  
6 for liver transplants. For every 100 people infected with HCV, 75-85 will develop chronic  
7 infection and 60-70 will suffer from HCV-related complications including chronic liver disease,  
8 cirrhosis, and death.

9           25.     Most HCV-infected individuals carry the virus for life and thereby remain  
10 contagious and able to transmit the virus to others. This is true irrespective of whether an  
11 individual’s HCV infection progresses to chronic form.

12           26.     Traditionally, chronic HCV infection has been treated with a combination of  
13 antiviral medicines—ribavirin, interferons, and, more recently, protease inhibitors. In addition to  
14 relatively limited efficacy, these available treatments have frequent and, at times, permanent side  
15 effects including flu-like symptoms, serious hemolytic anemia, worsening of cardiac disease,  
16 weight loss, skin rashes, hair loss, muscle or bone pain, diarrhea, and vomiting. Moreover, these  
17 treatments must be taken for prolonged periods—24 to 48 weeks—thereby exacerbating the  
18 physical and emotional toll on the infected individuals and their families, which can lead to patient  
19 discontinuation of treatment. While liver transplantation can be life-saving for HCV-infected  
20 individuals in end-stage liver disease, transplantation presents significant risks and is not a readily  
21 available option for patients due to donor shortages and potential organ rejection. Even when  
22 available, transplantation is costly and requires ongoing post-procedure care, and for HCV-  
23 positive transplant recipients, reinfection is almost universal.

24           27.     Gilead has developed a new, orally administered prescription drug for treatment of  
25 chronic HCV infection called sofosbuvir that shortens HCV therapy to no more than 12 to 16  
26 weeks. Invented by Pharmasset, sofosbuvir is a nucleotide analogue NS5B polymerase inhibitor  
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1 for the treatment of chronic HCV infection. Ultimately, it combats the disease by suppressing the  
2 replication of viral RNA and directly interfering with the HCV life cycle.

3 28. Sofosbuvir is an all-oral treatment that sets a new standard of care for treating  
4 chronic HCV infection. Because of this, sofosbuvir will form the basis for a revolution in  
5 hepatitis C treatment.

6 29. On November 21, 2011 Gilead and Pharmasset announced that the companies had  
7 signed a definitive agreement under which Gilead would acquire Pharmasset. On January 17,  
8 2012 Gilead announced that its acquisition of Pharmasset had been completed.

9 30. On April 8, 2013, Gilead filed a new drug application (“NDA”) with the United  
10 States Food and Drug Administration (“FDA”) seeking approval of sofosbuvir as a once-daily oral  
11 therapy for chronic HCV infection. The data submitted in this NDA support the use of sofosbuvir  
12 and ribavirin as an oral therapy for patients with genotype 2 and 3 HCV infection, and for  
13 sofosbuvir in combination with ribavirin and pegylated interferon for treatment-naïve patients with  
14 genotype 1, 4, 5 and 6 HCV infection (hereinafter “Sofosbuvir NDA”).

15 31. On June 7, 2013, Gilead issued a press release publicly announcing that FDA had  
16 granted priority review of Gilead’s Sofosbuvir NDA. FDA grants priority review status to drug  
17 candidates that may offer major advances in treatment over existing options. FDA has set a target  
18 review date of December 8, 2013 for the Sofosbuvir NDA.

19 32. Gilead has made substantial preparation to make, sell, and offer to sell sofosbuvir  
20 in the United States, including manufacturing sufficient quantities for sale upon FDA approval.

21 **THE PRESENCE OF A CASE OR CONTROVERSY**

22 **Merck’s Stake in the HCV Market**

23 33. Merck is a worldwide pharmaceutical company that offers therapeutic products  
24 related to, among other things, infectious diseases, including HCV infection.

25 34. In 2011, FDA approved Merck’s NDA for the prescription drug boceprevir, which  
26 is a protease inhibitor used to treat long-lasting HCV infection and is marketed under the trade  
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1 name Victrelis®. On information and belief, Merck's Victrelis® sales currently exceed \$500  
2 million annually.

3 35. On information and belief, Merck monitors the drug-development pipelines,  
4 clinical trials, and acquisitions of competitor pharmaceutical companies, including activities  
5 related to potential therapeutic products for the treatment of HCV infection. On information and  
6 belief, Merck has monitored and continues to monitor such activities as related to Gilead.

7 36. On information and belief, Merck became aware in November 2011 that Gilead  
8 entered into a deal to acquire Pharmasset Inc. On information and belief, Merck was aware at  
9 least as of that time that Pharmasset Inc. had been developing an experimental HCV drug referred  
10 to as PSI-7977, which is now known as sofosbuvir. On information and belief, Merck was also  
11 aware at that time that some analysts predicted that PSI-7977 could generate billions of dollars in  
12 revenue annually over the long term.

13 37. On information and belief, Merck was aware by the end of 2011 that PSI-7977, in  
14 combination with ribavirin and pegylated interferon, was publicly reported to have cured 100% of  
15 people with HCV genotypes 2 and 3 in Phase IIb clinical trials.

16 38. On information and belief, Merck has monitored and continues to monitor the  
17 outcome of clinical trials of PSI-7977.

18 39. On information and belief, Merck became aware of Gilead's filing of the  
19 Sofosbuvir NDA in April 2013.

20 40. On information and belief, Merck became aware of FDA's granting of priority  
21 review status of the Sofosbuvir NDA in June 2013.

22 41. On information and belief, Merck has monitored since April 2013 and continues to  
23 monitor today the FDA approval status of the Sofosbuvir NDA.

24 42. If approved, the Sofosbuvir NDA drug product will directly compete against  
25 Merck's Victrelis® product in the HCV market.

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1 Bhatt, and left a message asking for a return call. On July 29 or July 30, Ms. Bhatt called Ms.  
2 Demain back. Ms. Demain indicated that she was not prepared to talk.

3 50. On Friday, August 2, 2013, Ms. Demain placed a second call to Ms. Bhatt. Ms.  
4 Demain did not reach Ms. Bhatt, and left a message asking for a return call.

5 51. On Monday, August 5, 2013, Ms. Demain placed a third call to Ms. Bhatt. On that  
6 call, Ms. Demain requested that Gilead take a license to the '499 and '712 patents in relation to  
7 Gilead's sofosbuvir and informed Ms. Bhatt of Merck's terms.

8 52. Also on August 5, 2013, Ms. Demain sent Ms. Bhatt at her Foster City office a  
9 letter by e-mail following up on their August 5, 2013 telephone call. In that letter, Merck stated its  
10 desire that Gilead take a non-exclusive sublicensable license to Merck's '499 and '712 patents and  
11 related foreign counterparts for commercialization of sofosbuvir. A copy of the August 5, 2013  
12 letter is attached to this Complaint as Exhibit C.

13 53. The August 5, 2013 letter further provided the following license terms:

14 In consideration of the rights to be granted, Gilead shall pay to  
15 Merck a 10% royalty on the Net Sales of Licensed Product (as  
16 defined in the Agreement) by Gilead, its distributors or sublicensees,  
17 including sales of Licensed Product that is co-packaged with one or  
18 more other pharmaceutical products, from the first sale of sofosbuvir  
19 until the expiration of the last to expire patent within the Licensed  
20 Patent Rights.

21 54. The August 5, 2013 letter requested a reply by August 31, 2013 and further stated  
22 that Merck already has one licensee on the terms specified in the letter.

23 55. A 10% royalty on products containing sofosbuvir is a prohibitive demand. On  
24 information and belief, Merck understands that its license demand is prohibitive and instead is  
25 meant to threaten Gilead, on the eve of approval of sofosbuvir, with the prospect of an  
26 infringement suit and a substantial claim for damages.

27 56. Merck's imposition on Gilead of the August 31, 2013 deadline to respond to its  
28 August 5, 2013 letter demonstrates a course of conduct consistent with Merck's willingness to  
enforce its patent rights.





1 would not, if marketed, directly or indirectly infringe any valid claim of the '712 patent, either  
2 literally or under the doctrine of equivalents.

3 73. Gilead is entitled to a judgment declaring that the manufacture, use, offer for sale,  
4 sale and/or importation of sofosbuvir and the drug product that is the subject of the Sofosbuvir  
5 NDA before expiration of the '712 patent does not and will not constitute infringement of the '712  
6 patent.

7 **COUNT IV**

8 **(Declaratory Judgment of Invalidity of the '712 Patent)**

9 74. Paragraphs 1 to 73 are incorporated herein as set forth above.

10 75. An actual and justiciable case or controversy exists between Gilead and Merck  
11 regarding the invalidity of the '712 patent.

12 76. The claims of the '712 patent are invalid for failure to comply with one or more of  
13 the conditions for patentability set forth in Title 35 of the United States Code, including, but not  
14 limited to, 35 U.S.C. §§ 101, 102, 103, and 112.

15 77. Gilead is entitled to judgment declaring that the claims of the '712 patent are  
16 invalid.

17 **RELIEF SOUGHT**

18 WHEREFORE, Plaintiff respectfully requests that this Court enter the following relief  
19 pursuant to 28 U.S.C. §§ 2201 and 2202:

20 a. That a declaration be issued under 28 U.S.C. § 2201 that the manufacture, use,  
21 offer for sale, sale, and/or importation of sofosbuvir and the drug product that is the subject of the  
22 Sofosbuvir NDA before expiration of the '499 patent does not and will not infringe any valid  
23 claim of the '499 patent;

24 b. That a declaration be issued under 28 U.S.C. § 2201 that the manufacture, use,  
25 offer for sale, sale, and/or importation of sofosbuvir and the drug product that is the subject of the  
26 Sofosbuvir NDA before expiration of the '712 patent does not and will not infringe any valid  
27 claim of the '712 patent;

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1 c. That a declaration be issued under 28 U.S.C. § 2201 that the claims of the '499  
2 patent are invalid;

3 d. That a declaration be issued under 28 U.S.C. § 2201 that the claims of the '712  
4 patent are invalid;

5 e. That an injunction be issued enjoining Defendants and their agents, representatives,  
6 attorneys, employees, and those persons in active concert or participation with them who receive  
7 actual notice herefrom from threatening or initiating infringement litigation against Gilead or its  
8 customers, dealers, or suppliers, or any prospective or present sellers, dealers, distributors or  
9 customers of Gilead, or charging them either orally in writing with infringement of the '499 or  
10 '712 patents;

11 f. That this case be adjudged an exceptional case under 35 U.S.C. § 285, and  
12 awarding Plaintiff its attorneys' fees and costs;

13 g. That the Court award all other and further relief as it deems just and proper.

14 **JURY TRIAL DEMAND**

15 Pursuant to Federal Rule of Civil Procedure 38(b), Plaintiff hereby requests a trial by jury  
16 of all issues so triable.

17  
18 Dated: August 30, 2013

FISH & RICHARDSON P.C.

19  
20 By: /s/ John M. Farrell

John M. Farrell

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22 Attorneys for Plaintiff  
GILEAD SCIENCES, INC.  
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