

Approved and Pending Biosimilar Applications*

Biosimilar	Reference Product	Marketing Status	Litigation (Active or Pending)
<p><i>Name:</i> Zarxio® (filgrastim-sndz)</p> <p><i>Manufacturer:</i> Sandoz</p> <p><i>BLA:</i> 125553</p>	<p><i>Name:</i> Neupogen® (filgrastim)</p> <p><i>Manufacturer:</i> Amgen</p> <p><i>BLA:</i> 103353</p> <p><i>Indications/Uses:</i> Treats neutropenia by increasing production of white blood cells. Often used for patients taking chemotherapy treatments or after bone marrow transplantation.</p>	<p>Approved by FDA on March 6, 2015.</p> <p>Commercial launch by Sandoz/Novartis in September 2015.</p>	<p>U.S. Supreme Court opinion issued on June 12, 2017.</p> <p>U.S. Court of Appeals for the Federal Circuit en banc opinion issued on December 14, 2017.</p> <p>Litigation in the U.S. District Court for the Northern District of California; summary judgment of non-infringement entered on January 1, 2018; on appeal to the U.S. Court of Appeals for the Federal Circuit.</p>
<p><i>Name:</i> Inflectra® (infliximab-dyyb)</p> <p><i>Manufacturer:</i> Celltrion, Inc.</p> <p><i>BLA:</i> 125544</p>	<p><i>Name:</i> Remicade® (infliximab)</p> <p><i>Manufacturer:</i> Janssen Biotech, Inc.</p> <p><i>BLA:</i> 103772</p> <p><i>Indications/Uses:</i> Inhibits tumor necrosis factor-alpha to reduce inflammation in patients with the following autoimmune diseases: rheumatoid arthritis, psoriatic arthritis, ulcerative colitis, Crohn's disease, and ankylosing spondylitis.</p>	<p>Approved by FDA on April 5, 2016.</p> <p>Commercial (at-risk) launch by Pfizer/Celltrion in November 2016.</p>	<p>Litigation initiated in the U.S. District Court for the District of Massachusetts.</p> <p>Grant of Celltrion's motion for summary judgment currently on appeal to the U.S. Court of Appeals for the Federal Circuit.</p>

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<p><i>Name:</i> Erelzi® (etanercept-szszs)</p> <p><i>Manufacturer:</i> Sandoz</p> <p><i>BLA:</i> 761042</p>	<p><i>Name:</i> Enbrel® (etanercept)</p> <p><i>Manufacturer:</i> Amgen</p> <p><i>BLA:</i> 103795</p> <p><i>Indications/Uses:</i> Inhibits tumor necrosis factor-alpha to reduce inflammation in patients with the following autoimmune diseases: rheumatoid arthritis, ankylosing spondylitis, psoriatic arthritis, and plaque psoriasis.</p>	<p><u>Approved by FDA on August 30, 2016.</u></p> <p>Received unanimous support (20-0) of approval by <u>FDA’s Arthritis Advisory Committee on July 13, 2016.</u></p> <p>Sandoz has agreed not to launch its biosimilar product Erelzi until an undisclosed date or event occurs.</p>	<p>Litigation in the U.S. District Court for the District of New Jersey.</p> <p>Bench trial took place from September 11, 2018 to September 25, 2018.</p>
<p><i>Name:</i> Amjevita™ (adalimumab-atto)</p> <p><i>Manufacturer:</i> Amgen</p> <p><i>BLA:</i> 761024</p>	<p><i>Name:</i> Humira® (adalimumab)</p> <p><i>Manufacturer:</i> AbbVie</p> <p><i>BLA:</i> 125057</p> <p><i>Indications/Uses:</i> Inhibits tumor necrosis factor-alpha to reduce inflammation in patients with the following autoimmune diseases: rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, Crohn’s disease, ulcerative colitis, moderate to severe chronic psoriasis, moderate to severe hidradenitis suppurativa, uveitis, and juvenile idiopathic arthritis.</p>	<p><u>Approved by FDA on September 23, 2016.</u></p> <p>Received unanimous support (26-0) of approval by <u>FDA’s Arthritis Advisory Committee on July 12, 2016.</u></p> <p>Amgen expects to launch its biosimilar product in Europe on Oct. 16, 2018, and in the United States on Jan. 31, 2023.</p>	<p>Global settlement between AbbVie and Amgen for Amjevita announced in April 2018 and provides for a U.S. market entry date of January 31, 2023.</p>

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<p><i>Name:</i> Renflexis® (infliximab-abda)</p> <p><i>Manufacturer:</i> Samsung Bioepis/Merck</p> <p><i>BLA:</i> 761054</p>	<p><i>Name:</i> Remicade® (infliximab)</p> <p><i>Manufacturer:</i> Janssen Biotech, Inc.</p> <p><i>BLA:</i> 103772</p> <p><i>Indications/Uses:</i> Inhibits tumor necrosis factor-alpha to reduce inflammation in patients with the following autoimmune diseases: rheumatoid arthritis, psoriatic arthritis, ulcerative colitis, Crohn's disease, and ankylosing spondylitis.</p>	<p><u>Approved by FDA on April 21, 2017.</u></p> <p>Commercial launch by Merck in late July 2017.</p>	<p>Litigation under the BPCIA settled in November 2017.</p>
<p><i>Name:</i> Cyltezo® (adalimumab-adbm)</p> <p><i>Manufacturer:</i> Boehringer Ingelheim</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Humira® (adalimumab)</p> <p><i>Manufacturer:</i> AbbVie</p> <p><i>BLA:</i> 125057</p> <p><i>Indications/Uses:</i> Inhibits tumor necrosis factor-alpha to reduce inflammation in patients with the following autoimmune diseases: rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, Crohn's disease, ulcerative colitis, moderate to severe chronic psoriasis, moderate to severe hidradenitis suppurativa, uveitis, and juvenile idiopathic arthritis.</p>	<p><u>Approved by FDA on August 25, 2017.</u></p>	<p>Litigation in the U.S. District Court for the District of Delaware.</p> <p>Expert discovery not scheduled to close until May 2020.</p>

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<p><i>Name:</i> Mvasi™ (bevacizumab-awwb)</p> <p><i>Manufacturer:</i> Amgen/Allergan</p> <p><i>BLA:</i> 761028</p>	<p><i>Name:</i> Avastin® (bevacizumab)</p> <p><i>Manufacturer:</i> Genentech</p> <p><i>BLA:</i> 125085</p> <p><i>Indications/Uses:</i> Vascular endothelial growth factor-specific angiogenesis inhibitor indicated for the treatment, either alone or as part of combination regimens, of: metastatic colorectal cancer; non-squamous non-small cell lung cancer; glioblastoma; metastatic renal cell carcinoma; cervical cancer; and recurrent epithelial ovarian, fallopian tube, or primary peritoneal cancer.</p>	<p>Approved by FDA on September 14, 2017.</p> <p>Received unanimous support (17-0) of approval by FDA's Oncologic Drugs Advisory Committee on July 13, 2017.</p>	<p>Litigation in the U.S. District Court for the District of Delaware. Trial is scheduled to begin in July 2020.</p>
<p><i>Name:</i> Ogivri™ (trastuzumab-dkst)</p> <p><i>Manufacturer:</i> Mylan/Biocon</p> <p><i>BLA:</i> 761074</p>	<p><i>Name:</i> Herceptin® (trastuzumab)</p> <p><i>Manufacturer:</i> Genentech</p> <p><i>BLA:</i> 103792</p> <p><i>Indications/Uses:</i> HER2/neu receptor antagonist indicated for (1) the treatment of HER2 overexpressing breast cancer; and (2) the treatment of HER2-overexpressing metastatic gastric or gastroesophageal junction adenocarcinoma.</p>	<p>Approved by FDA on December 1, 2017.</p> <p>Received unanimous support (16-0) of approval by FDA's Oncologic Drugs Advisory Committee on July 13, 2017.</p>	<p>Mylan announced global licensing agreement for trastuzumab with Genentech on March 13, 2017.</p>

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<p><i>Name:</i> Ixifi™ (infliximab-qbtx)</p> <p><i>Manufacturer:</i> Pfizer</p> <p><i>BLA:</i> 761072</p>	<p><i>Name:</i> Remicade® (infliximab)</p> <p><i>Manufacturer:</i> Janssen Biotech, Inc.</p> <p><i>BLA:</i> 103772</p> <p><i>Indications/Uses:</i> Inhibits tumor necrosis factor-alpha to reduce inflammation in patients with the following autoimmune diseases: rheumatoid arthritis, psoriatic arthritis, ulcerative colitis, Crohn's disease, and ankylosing spondylitis.</p>	<p>Approved by FDA on December 13, 2017.</p>	<p>None under the BPCIA.</p> <p>Antitrust lawsuits are pending against Janssen/J&J in the U.S. District Court for the Eastern District of Pennsylvania, one filed by Pfizer in November 2017 and the second filed by Walgreen Co. and Kroger Co. in June 2018.</p> <p>District court denied Defendants' motion to dismiss the Pfizer complaint on August 8, 2018.</p>
<p><i>Name:</i> Retacrit® (epoetin alfa-epbx)</p> <p><i>Manufacturer:</i> Hospira/Pfizer</p> <p><i>BLA:</i> 125545</p>	<p><i>Name:</i> Epogen® or Procrit® (epoetin alfa)</p> <p><i>Manufacturer:</i> Amgen (Epogen); Janssen Biotech (Procrit)</p> <p><i>BLA:</i> 103234</p> <p><i>Indications/Uses:</i> Stimulates red blood cells to treat anemia. Often used for patients taking chemotherapy treatment or who have chronic renal failure.</p>	<p>Approved by FDA on May 15, 2018.</p> <p>Received support (14-1) for approval by FDA's Oncologic Drugs Advisory Committee on May 25, 2017.</p>	<p>Litigation initiated in the U.S. District Court for the District of Delaware.</p> <p>Currently on appeal by both parties to the U.S. Court of Appeals for the Federal Circuit.</p>

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<p><i>Name:</i> Fulphila™ (pegfilgrastim-jmdb)</p> <p><i>Manufacturer:</i> Mylan/Biocon</p> <p><i>BLA:</i> 761075</p>	<p><i>Name:</i> Neulasta® (pegfilgrastim)</p> <p><i>Manufacturer:</i> Amgen</p> <p><i>BLA:</i> 125031</p> <p><i>Indications/Uses:</i> Treats neutropenia by increasing production of white blood cells. Often used for patients in chemotherapy or after a bone marrow transplant.</p> <p>Neulasta® is the long-acting formulation of Neupogen®.</p>	<p><u>Approved by FDA on June 4, 2018.</u></p> <p>Commercial launch by Mylan in or around July 2018.</p>	<p>Litigation in the U.S. District Court for the Western District of Pennsylvania.</p>
<p><i>Name:</i> Nivestym™ (filgrastim-aafi)</p> <p><i>Manufacturer:</i> Hospira/Pfizer</p> <p><i>BLA:</i> 761080</p>	<p><i>Name:</i> Neupogen® (filgrastim)</p> <p><i>Manufacturer:</i> Amgen</p> <p><i>BLA:</i> 103353</p> <p><i>Indications/Uses:</i> Treats neutropenia by increasing production of white blood cells. Often used for patients taking chemotherapy treatments or after bone marrow transplantation.</p>	<p><u>Approved by FDA on July 20, 2018.</u></p> <p>Commercial launch by Pfizer on or around October 1, 2018.</p>	<p>Litigation in the U.S. District Court for the District of Delaware.</p>

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<p><i>Name:</i> Hyrimoz™ (adalimumab-adaz)</p> <p><i>Manufacturer:</i> Sandoz</p> <p><i>BLA:</i> 761071</p>	<p><i>Name:</i> Humira® (adalimumab)</p> <p><i>Manufacturer:</i> AbbVie</p> <p><i>BLA:</i> 125057</p> <p><i>Indications/Uses:</i> Inhibits tumor necrosis factor-alpha to reduce inflammation in patients with the following autoimmune diseases: rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, Crohn's disease, ulcerative colitis, moderate to severe chronic psoriasis, moderate to severe hidradenitis suppurativa, uveitis, and juvenile idiopathic arthritis.</p>	<p><u>Approved by FDA on October 30, 2018.</u></p>	<p>Global settlement between AbbVie and Sandoz for Hyrimoz announced in October 2018 and provides for a U.S. market entry date of September 30, 2023.</p>
<p><i>Name:</i> Udenyca™ (pegfilgrastim-cbqv)</p> <p><i>Manufacturer:</i> Coherus BioSciences</p> <p><i>BLA:</i> 761039</p>	<p><i>Name:</i> Neulasta® (pegfilgrastim)</p> <p><i>Manufacturer:</i> Amgen</p> <p><i>BLA:</i> 125031</p> <p><i>Indications/Uses:</i> Treats neutropenia by increasing production of white blood cells. Often used for patients taking chemotherapy treatments.</p>	<p><u>Approved by FDA on November 2, 2018.</u></p> <p>Coherus expects to launch commercially in January 2019.</p>	<p>Complaint in the U.S. District Court for the District of Delaware dismissed on February 2, 2018, but currently on appeal to U.S. Court of Appeals for the Federal Circuit.</p> <p>Trade secret misappropriation and unfair competition lawsuit also pending in California Superior Court. Jury trial is scheduled to begin on January 22, 2019.</p>

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<p><i>Name:</i> Truxima® (rituximab-abbs)</p> <p><i>Manufacturer:</i> Celltrion, Inc.</p> <p><i>BLA:</i> 761088</p>	<p><i>Name:</i> Rituxan® (rituximab)</p> <p><i>Manufacturer:</i> Genentech</p> <p><i>BLA:</i> 103705</p> <p><i>Indications/Uses:</i> Targets CD-20 antigen on the surface of B-cells to treat (1) Non-Hodgkin's Lymphoma; (2) Chronic Lymphocytic Leukemia; (3) Rheumatoid Arthritis in combination with methotrexate in adult patients with moderately- to severely-active RA who have inadequate response to one or more TNF antagonist therapies; (4) Granulomatosis with Polyangiitis (Wegener's Granulomatosis) and Microscopic Polyangiitis in adult patients in combination with glucocorticoids.</p>	<p>Approved on November 28, 2018.</p> <p>Received unanimous support for approval from FDA's Oncologic Drugs Advisory Committee on October 10, 2018.</p>	<p>Complaint filed in the U.S. District Court for the District of New Jersey jointly and voluntarily dismissed on November 1, 2018.</p>
<p><i>Name:</i> Lapelga™</p> <p><i>Manufacturer:</i> Apotex (Apobiologix)</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Neulasta® (pegfilgrastim)</p> <p><i>Manufacturer:</i> Amgen</p> <p><i>BLA:</i> 125031</p> <p><i>Indications/Uses:</i> Treats neutropenia by increasing production of white blood cells. Often used for patients taking chemotherapy treatments or after bone marrow transplantation.</p>	<p>Pending FDA approval.</p>	<p>Litigation in the U.S. District Court for the Southern District of Florida.</p>

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<p><i>Name:</i> Grastofil®</p> <p><i>Manufacturer:</i> Apotex (Apobiologix)</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Neupogen® (filgrastim)</p> <p><i>Manufacturer:</i> Amgen</p> <p><i>BLA:</i> 103353</p> <p><i>Indications/Uses:</i> Treats neutropenia by increasing production of white blood cells. Often used for patients taking chemotherapy treatments.</p>	<p>Pending FDA approval.</p>	<p>Complaint filed in the U.S. District Court for the Southern District of Florida consolidated into <i>Amgen v. Apotex</i> pegfilgrastim litigation (see above).</p>
<p><i>Name:</i> LA-EP2006</p> <p><i>Manufacturer:</i> Sandoz</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Neulasta® (pegfilgrastim)</p> <p><i>Manufacturer:</i> Amgen</p> <p><i>BLA:</i> 125031</p> <p><i>Indications/Uses:</i> Treats neutropenia by increasing production of white blood cells. Often used for patients taking chemotherapy treatments.</p> <p>Neulasta® is the long-acting formulation of Neupogen®.</p>	<p>Pending FDA approval; delayed after being issued a Complete Response Letter (“CRL”) by FDA in Q2 2016.</p> <p>Sandoz has stated that it is conducting an additional study per FDA’s data request/expected to be completed in early 2019.</p>	<p>Litigation in the U.S. District Court for the Northern District of California (being coordinated for discovery and trial with the <i>Amgen v. Sandoz</i> filgrastim matter).</p> <p>Fully briefed oral arguments are expected to be scheduled for early 2019.</p>

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<p><i>Name:</i> CT-P6/Herzuma</p> <p><i>Manufacturer:</i> Celltrion/Teva</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Herceptin® (trastuzumab)</p> <p><i>Manufacturer:</i> Genentech</p> <p><i>BLA:</i> 103792</p> <p><i>Indications/Uses:</i> HER2/neu receptor antagonist indicated for (1) the treatment of HER2 overexpressing breast cancer; and (2) the treatment of HER2-overexpressing metastatic gastric or gastroesophageal junction adenocarcinoma.</p>	<p>Pending FDA approval; delayed after being issued a CRL by FDA in or prior to April 2018, relating to manufacturing problems.</p>	<p>Litigation in the U.S. District Court for the District of Delaware.</p>
<p><i>Name:</i> ABP 980</p> <p><i>Manufacturer:</i> Amgen/Allergan</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Herceptin® (trastuzumab)</p> <p><i>Manufacturer:</i> Genentech</p> <p><i>BLA:</i> 103792</p> <p><i>Indications/Uses:</i> HER2/neu receptor antagonist indicated for (1) the treatment of HER2 overexpressing breast cancer; and (2) the treatment of HER2-overexpressing metastatic gastric or gastroesophageal junction adenocarcinoma.</p>	<p>Pending FDA approval; delayed after being issued a CRL by FDA on or around May 31, 2018.</p>	<p>Litigation in the U.S. District Court for the District of Delaware.</p>

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<p><i>Name:</i> TBD</p> <p><i>Manufacturer:</i> Adello Biologics</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Neupogen® (filgrastim)</p> <p><i>Manufacturer:</i> Amgen</p> <p><i>BLA:</i> 103353</p> <p><i>Indications/Uses:</i> Treats neutropenia by increasing production of white blood cells. Often used for patients taking chemotherapy treatments or after bone marrow transplantation.</p>	<p>Pending FDA approval; aBLA accepted for filing in September 2017.</p>	<p>Litigation in the U.S. District Court for the District of New Jersey.</p>
<p><i>Name:</i> SB3</p> <p><i>Manufacturer:</i> Samsung Bioepis/Merck</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Herceptin® (trastuzumab)</p> <p><i>Manufacturer:</i> Genentech</p> <p><i>BLA:</i> 103792</p> <p><i>Indications/Uses:</i> HER2/neu receptor antagonist indicated for (1) the treatment of HER2 overexpressing breast cancer; and (2) the treatment of HER2-overexpressing metastatic gastric or gastroesophageal junction adenocarcinoma.</p>	<p>Pending FDA approval; aBLA accepted for filing in late December 2017.</p>	<p>Litigation in the U.S. District Court for the District of Delaware.</p>

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<p><i>Name:</i> Rixathon/GP2013</p> <p><i>Manufacturer:</i> Sandoz</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Rituxan® (rituximab)</p> <p><i>Manufacturer:</i> Genentech</p> <p><i>BLA:</i> 103705</p> <p><i>Indications/Uses:</i> Targets CD-20 antigen on the surface of B-cells to treat (1) Non-Hodgkin's Lymphoma; (2) Chronic Lymphocytic Leukemia; (3) Rheumatoid Arthritis in combination with methotrexate in adult patients with moderately- to severely-active RA who have inadequate response to one or more TNF antagonist therapies; (4) Granulomatosis with Polyangiitis (Wegener's Granulomatosis) and Microscopic Polyangiitis in adult patients in combination with glucocorticoids.</p>	<p>Pending FDA approval; delayed after being issued a CRL by FDA in May 2018.</p>	<p>Litigation in the U.S. District Court for the District of New Jersey.</p>
<p><i>Name:</i> TBD</p> <p><i>Manufacturer:</i> Hospira/Pfizer</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Herceptin® (trastuzumab)</p> <p><i>Manufacturer:</i> Genentech</p> <p><i>BLA:</i> 103792</p> <p><i>Indications/Uses:</i> HER2/neu receptor antagonist indicated for the treatment of HER2-overexpressing breast and metastatic gastric/gastroesophageal adenocarcinoma.</p>	<p>Pending FDA approval.</p>	<p>Complaint filed under the BPCIA in the U.S. District Court for the District of Delaware has been dismissed.</p>

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<p><i>Name:</i> SB5</p> <p><i>Manufacturer:</i> Samsung Bioepis/Merck</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Humira® (adalimumab)</p> <p><i>Manufacturer:</i> AbbVie</p> <p><i>BLA:</i> 125057</p> <p><i>Indications/Uses:</i> Inhibits tumor necrosis factor-alpha to reduce inflammation in patients with the following autoimmune diseases: rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, Crohn's disease, ulcerative colitis, moderate to severe chronic psoriasis, moderate to severe hidradenitis suppurativa, uveitis, and juvenile idiopathic arthritis.</p>	<p>Pending FDA approval; aBLA accepted for filing in late September 2018.</p>	<p>Global resolution of all IP-related litigation related to SB5 (adalimumab) announced by Abbvie and Samsung in April 2018 and provides for a U.S. market entry date of June 30, 2023.</p>
<p><i>Name:</i> TX-01</p> <p><i>Manufacturer:</i> Tanvex BioPharma</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Neupogen® (filgrastim)</p> <p><i>Manufacturer:</i> Amgen</p> <p><i>BLA:</i> 103353</p> <p><i>Indications/Uses:</i> Treats neutropenia by increasing production of white blood cells. Often used for patients taking chemotherapy treatments or after bone marrow transplantation.</p>	<p>Pending FDA approval; aBLA submitted on or around October 1, 2018.</p>	<p>N/A</p>

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<p><i>Name:</i> TBD</p> <p><i>Manufacturer:</i> Mylan</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Humira® (adalimumab)</p> <p><i>Manufacturer:</i> AbbVie</p> <p><i>BLA:</i> 125057</p> <p><i>Indications/Uses:</i> Inhibits tumor necrosis factor-alpha to reduce inflammation in patients with the following autoimmune diseases: rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, Crohn's disease, ulcerative colitis, moderate to severe chronic psoriasis, moderate to severe hidradenitis suppurativa, uveitis, and juvenile idiopathic arthritis.</p>	<p>Pending FDA approval.</p>	<p>Global settlement between AbbVie and Mylan for a follow-on adalimumab product announced in July 2018 and provides for a U.S. market entry date of July 31, 2023.</p>
<p><i>Name:</i> TBD</p> <p><i>Manufacturer:</i> Fresenius Kabi</p> <p><i>BLA:</i> Unknown</p>	<p><i>Name:</i> Humira® (adalimumab)</p> <p><i>Manufacturer:</i> AbbVie</p> <p><i>BLA:</i> 125057</p> <p><i>Indications/Uses:</i> Inhibits tumor necrosis factor-alpha to reduce inflammation in patients with the following autoimmune diseases: rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, Crohn's disease, ulcerative colitis, moderate to severe chronic psoriasis, moderate to severe</p>	<p>Pending FDA approval.</p>	<p>Global settlement between AbbVie and Fresenius Kabi for a follow-on adalimumab product provides for a U.S. market entry date of September 30, 2023.</p>

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	hidradenitis suppurativa, uveitis, and juvenile idiopathic arthritis.		
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