

# Globelmmune Inc

# **COMPANY AND PIPELINE OVERVIEW REPORT**

A comprehensive coverage of the company and a summary of the drug pipeline portfolio.

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# ABOUT COMPANY AND PIPELINE OVERVIEW REPORT

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## **GLOSSARY**

## **Number of Drugs in Active Development**

Number of drugs associated with the company or subsidiary that are currently in active development, i.e. the development status for the drug(s) is one of the following: Discovery, Clinical, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

#### **Number of Inactive Drugs**

Number of drugs associated with the company or subsidiary that are currently classified as inactive, i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.

#### **Number of Patents as Owner**

Number of patents associated with the company where the company is listed as owner; i.e. the relationship type (or way the patent refers to the company) is: Patent Assignee/Owner, Patent owner (not assignee), Licensee for development and marketing, Licensee – marketing only (Distributor), Patent assignee of family member, Inferred assignee.

#### **Number of Patents as Third Party**

Number of patents associated with the company where the company is listed as third party; i.e. the relationship type (or way the patent refers to the company) is: Patent assignee (not owner), Ex-Licensee for development and marketing, Ex-Licensee marketing only (Distributor), Customer of technology, Ex-Customer of technology, Patent opponent or infringer, Affiliate organization of inventor, Owner of underlying technology.

#### Patents summary table

This table represents a summary of the core patent coverage for this company covering Therapeutic EP, US and WO patents since 1990 only.

#### **Number of Deals**

A count of deals where the company or one of its subsidiaries is the primary company.

#### **Key Indications**

Displays top ten key indications for the company and its subsidiaries based on frequency (indications occurring with high and identical frequency are always included, and this may result in more than ten Key Indications being listed). Includes both indications associated with patents where the company is patent owner and indications associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

### **Key Target-based Actions**

Displays top ten key target-based actions for the company and its subsidiaries based on frequency (actions occurring with high and identical frequency are always included, and this may result in more than ten Key Target-based Actions being listed). Includes both target-based actions associated with patents where the company patent owner and target-based actions associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended. A target-based action is one that is associated with a target.

#### **Key Technologies**

Displays top ten key technologies for the company and its subsidiaries based on frequency (technologies occurring with high and identical frequency are always included, and this may result in more than ten Key Technologies being listed). Includes both key technologies associated with patents where the company relationship is patent owner and key technologies associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

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PLEASE NOTE: the financials section where present in the report includes: Share Information, Stock Performance chart (including the consensus recommendation), and Major Shareholders. Financial Performance presents graphical and tabular data on Worldwide Sales, Operating Income and Net Income over time, together with a Quarterly earnings update. Balance Sheet lists Assets, Liabilities and Stockholders Equity, and Forecasts includes: EPS Forecast and Other Forecasts. The data reported in all sections (except share information and major stock holders) are correct as of the publication date of the report (and not the download date). For share information and major stock holders the data is correct for the date shown with these sections



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## Globelmmune Inc

#### **COMPANY OVERVIEW**

Company Name	Globelmmune Inc
Parent Company Name	Globelmmune Inc
Website	http://www.globeimmune.com/
Country	US
Number of Drugs in Active Development	6
Number of Inactive Drugs	12
Number of Patents as Owner	20
Number of Patents as Third Party	2
Number of Deals	9
Key Indications	Breast tumor, Chordoma, HIV infection, Hepatitis D virus infection, Mycobacterium tuberculosis infection, Non-small-cell lung cancer, Pancreas tumor, Colorectal tumor, Medullary thyroid cancer, Hepatitis B
Key Target-based Actions	Hepatitis C virus NS3 protease modulator, Mucin 1 stimulator, CD66e modulator, Brachyury protein modulator, CD95 agonist, Epidermal growth factor receptor modulator, HIV GAG protein modulator, PARP inhibitor, Protease inhibitor, Ras GTPase modulator, SETX gene modulator
Key Technologies	Yeast recombinant, Biological therapeutic, Antigen presentation system, Parenteral formulation unspecified, Tumor antigen therapeutic, Subcutaneous formulation, Small molecule therapeutic, Protein fusion, Viral core protein, Antigen, Drug combination, Peptide, Tumor antigen

#### **COMPANY PROFILE**

#### **SUMMARY**

Globelmmune Inc is a biopharmaceutical company which is engaged in the discovery, development and manufacturing of potent, targeted molecular immunotherapies, named Tarmogens, for the treatment of cancer and infectious diseases. Tarmogens are whole, heat-killed recombinant Saccharomyces cerevisiae yeast which has been genetically modified to express protein targets. They taken up by antigen presenting cells, and stimulate a cytotoxic T lymphocytes against cells expressing the desired target.

### **COMPANY LOCATION**

In December 2005, Globelmmune relocated its headquarters to Louisville, CO.

## **TECHNOLOGY INFORMATION**

Tarmogens are whole, heat-killed, recombinant Saccharomyces cerevisiae engineered to produce one or more target disease proteins or antigens that stimulate the immune system against diseased cells.

### **LICENSING AGREEMENTS**

In May 2009, Globelmmune granted exclusive license to all their oncology programs, including GI-4000 immunotherapies, to Celgene, for which Globelmmune will receive a \$40 million upfront payment from Celgene. Globelmmune will conduct the early development of the product candidates through certain pre-defined endpoints. Celgene will have the option to obtain an exclusive worldwide license to develop and commercialize these immunotherapy product candidates. Globelmmune is eligible to receive over \$500 million in development and regulatory milestones, double-digit royalties and additional milestone payments based on net sales of the licensed product candidates.

In July 2008, Globelmmune and the National Cancer Institute (NCI) at the National Institutes of Health (NIH) signed a CRADA to jointly develop Tarmogen based immunotherapy products for cancer. Globelmmune would use its Tarmogen technology to develop the products which would express cancer antigens provided by the NIH. The NIH would conduct and fund preclinical and early clinical development of the product candidates. CEA (carcinoembryonic antigen) was the



first cancer antigen to be evaluated in this collaboration.

In January 2005, Globelmmune and MycoLogics Inc signed a non-exclusive research license and option agreement. MycoLogics was to undertake proof-of-concept preclinical tests of vaccines targeting aspergillosis, coccidioidmycosis, cryptococcosis leishmaniasis, discovered using Globelmmune's Tarmogen technology. The research was supported by NIH SBIR and STTR awards.

#### **FINANCIAL**

In July 2014, the company planned to conduct an IPO of 1.5 million shares priced at \$10 each for gross proceeds of \$15 million. Underwriters would be granted a 45-day overallotment option to purchase up to 225,000 additional shares. The stock was approved to be listed on the NASDAQ Capital Market and trading of shares began under the ticker symbol 'GBIM'. At that time, the offering was expected to close on July 08, 2014. Later that month, the company raised gross proceeds of \$17.25 million from the offering of 1.725 million shares.

In July 2012, the company filed a common stock IPO registration statement with the US Security and Exchange Commission. At that time, the company also filed for its common stock to be listed on the NASDAQ Global Market under the symbol "GBIM".

In January 2010, Globelmmune raised \$17.5 million from a series E preferred stock financing round.

In September 2007, Globelmmune closed a \$41.2 million series C preferred stock financing round.

In January 2006, Globelmmune completed a second closing of its series B preferred stock financing, raising a further \$4.1 million in addition to the previous \$34.3 million. The Company would use the funds to finish a phase II trial of GI-4000 for pancreatic cancer, and a phase Ib trial of GI-5005 for chronic hepatitis C infection.

In June 2003, Globelmmune closed a series A preferred venture financing round. The round provided for up to \$8 million in two tranches, with closure of the second tranche dependent on achievement of certain milestones.

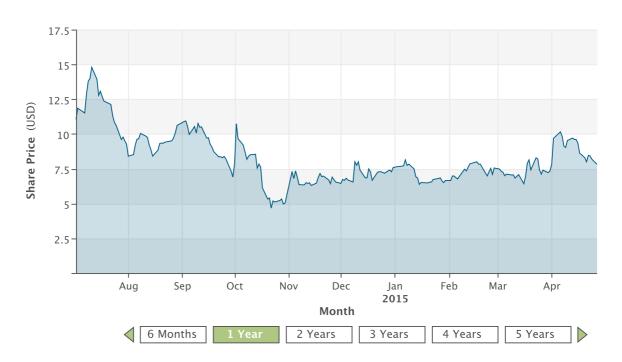
#### **COMPANY FINANCIALS**

#### **SHARE INFORMATION**

Close Price (USD)	7.82
Change (USD)	-0.37 (-4.52%)
Previous Close Price (USD)	8.19
Volume	22,271
52-Week High (USD)	15.00
52-Week Low (USD)	4.29
Date	27-Apr-2015
Exchange	NASDAQ(COMPOSITE)
Current Number of Shares Outstanding	5,751,574
Current Market Capitalization	47,105,391
EPS (Date Reported)	-8.04025



#### **Stock Performance**



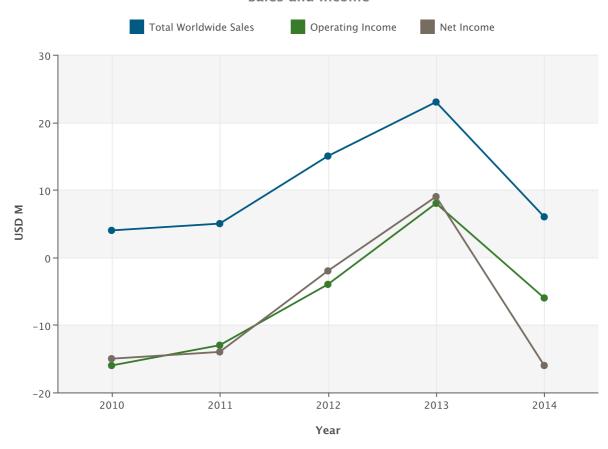
### **MAJOR SHAREHOLDERS**

Shareholder	Туре	Country	Shares held	% of shares held	Change in holding	% changes in shares held	Date
Woodstock Corporation	Investme nt Advisor	United States	18,056	0.31	0	0	31-Mar-2015
Fidelity Spartan Extended Market Index Fund	Mutual Fund	United States	5,000	0.09	0	0	28-Feb-2015
Geode Capital Management, L.L.C.	Investme nt Advisor/ Hedge Fund	United States	5,000	0.09	0	0	31-Mar-2015
The Vanguard Group, Inc.	Investme nt Advisor	United States	2,318	0.04	2,318	1	31-Mar-2015
Vanguard Total Stock Market Index Fund	Mutual Fund	United States	2,318	0.04	2,318	1	31-Mar-2015
AXA/Lord Abbett Micro Cap Portfolio	Mutual Fund	United States	130	0	0	0	28-Feb-2015



## FINANCIAL PERFORMANCE

# Sales and Income



	2010	2011	2012	2013	2014
Sales (USD M)	4.067797	5.107842	14.641606	22.518369	5.966381
Operating Income (USD M)	-15.754804	-12.59346	-3.966484	7.687692	-5.819118
Net Income (USD M)	-14.791697	-13.724813	-2.014744	9.476699	-16.260926



# **Quarterly earnings update**

Period	Sales (USD M)	Operating Income (USD M)	Net Income (USD M)
2014 Q4	1.510679	-1.74149	-1.74149
2014 Q3	1.306338	-1.5364	-6.659702
2014 Q2	1.731018	-1.336297	-9.151511
2014 Q1	1.418346	-1.204931	-5.882124
2013 Q3	2.331435	-1.246806	-3.927348
2013 Q2	4.222197	0.597252	-2.140577
2013 Q1	2.132267	-2.038215	-4.772857
2012 Q2	3.041572	-1.320637	-4.055256
2012 Q1	2.647035	-1.633175	-5.27658
2011 Q2	0.995909	-3.349322	-6.088345

## **BALANCE SHEET**

## Assets (USD M)

	2010	2011	2012	2013	2014
Cash & Short Term Investments	20.291374	15.154611	2.002948	5.924241	16.812459
Inventories - Total	0	0	0	0	0
Current Assets - Total	20.684243	15.576588	2.889343	6.825137	17.812351
Property, Plant And Equipment - Net	2.887816	2.068493	1.251848	0.492802	0.455768
Other Assets - Total	0	0	0.1	0.1	0.1
Total Assets	23.672059	17.745081	4.241191	7.417939	18.368119



# Liabilities (USD M)

	2010	2011	2012	2013	2014
Accounts Payable	1.132584	1.314915	2.957234	1.736621	0.572586
Short Term Debt & Current Portion Of Long Term Debt	0	0	0	0	0
Current Liabilities - Total	6.402923	13.442279	8.350924	6.414495	5.172489
Long Term Debt	0	0	0	0.197955	0
Other Liabilities	4.169498	5.152976	3.423218	1.787957	0.148641
Total Liabilities	30.066973	37.504009	25.568849	19.057383	12.764628

# Stockholders Equity (USD M)

	2010	2011	2012	2013	2014
Minority Interest	0	0	0	0	0
Preferred Stock	154.138153	164.927649	174.797249	187.68239	0
Common Stock	0.000377	0.000378	0.000397	0.000399	0.005752
Treasury Stock	0	0			
Total Liabilities & Shareholders' Equity	23.672059	17.745081	4.241191	7.417939	18.368119

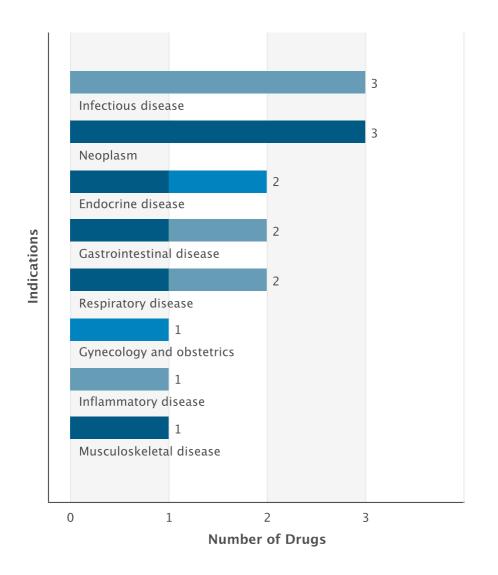


# PRODUCT PORTFOLIO SUMMARY

## **DRUGS**

# Drugs by Indication

Active Drugs by Indication Chart



Phase 2 Clinical
Phase 1 Clinical
Discovery

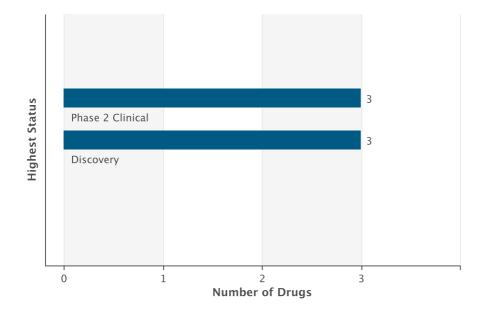


# Drugs by Indication Table

Indication	Active	Inactive	Total
Neoplasm	3	6	9
Infectious disease	3	6	9
Gastrointestinal disease	2	2	4
Respiratory disease	2	2	4
Inflammatory disease	1	2	3
Endocrine disease	2	1	3
Dermatological disease	0	2	2
Gynecology and obstetrics	1	1	2
Immune disorder	0	2	2
Nutritional disorder	0	1	1
Musculoskeletal disease	1	0	1
Hematological disease	0	1	1
Neurological disease	0	1	1

# **Drugs by Highest Status**

Active Drugs by Highest Status Chart





# Drugs by Highest Status Table

Development Status	Number of Drugs
Phase 2 Clinical	3
Discovery	3
Discontinued	1
No Development Reported	11

## **DEALS**

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Drug - Discovery/Design	1	0	0	0	1
Drug - Funding	3	0	0	0	3
Drug - CRADA	1	0	0	0	1
Drug - Early Research/Development	0	0	1	0	1
Drug - Development/Commercialization License	1	0	0	0	1
Drug - Development Services	1	0	1	0	2

## **CLINICAL TRIALS**

# Trials by Condition Studied

Condition Studied	Ongoing	All
Neoplasm	3	7
Gastrointestinal disease	0	5
Respiratory disease	0	2
Inflammatory disease	0	2
Infectious disease	0	2
Endocrine disease	1	1
Musculoskeletal disease	1	1

# Trials by Phase

Phase	Ongoing	All
Phase 2	2	6



### **Phase Definitions**

#### Phase 3 Clinical

Includes Phase 3, Phase 3b, Phase 3a, Phase 2/3 (where enrolment count is 300 or over)

#### Phase 2 Clinical

Includes Phase 2, Phase 2a, Phase 2b, Phase 1/2 (where enrolment count is 100 or over), Phase 2/3 (where enrolment count is under 300 or not specified)

### Phase 1 Clinical

Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

#### **PATENTS** \*

Indication	As Owner	As Third Party	Total
Cardiovascular disease	0	1	1
Endocrine disease	3	0	3
Gastrointestinal disease	7	0	7
Genitourinary disease	2	0	2
Hematological disease	0	1	1
Degeneration	1	0	1
Andrology	1	0	1
Immune disorder	1	1	2
Musculoskeletal disease	1	0	1
Neoplasm	11	0	11
Ocular disease	0	1	1
Neurological disease	2	1	3
Nutritional disorder	1	0	1
Prophylaxis	1	0	1
Respiratory disease	5	0	5
Infectious disease	15	1	16
Inflammatory disease	7	1	8
Gynecology and obstetrics	2	0	2
Dermatological disease	1	0	1



* This table represents a summary of the core patent coverage for this company covering Therapeutic 1990 only.	c EP, US and WO patents since
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## **PRODUCT PORTFOLIO DRUGS**

PLEASE NOTE: Highest status refers to highest development of that drug for one of the active companies

## GI-4000

Drug Name	GI-4000
Key Synonyms	
Originator Company	Globelmmune Inc
Active Companies	Globelmmune Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Non-small-cell lung cancer, Pancreas tumor, Colorectal tumor
Target-based Actions	Ras GTPase modulator
Other Actions	Therapeutic vaccine, Anticancer, Recombinant fungal vector vaccine
Technologies	Tumor antigen therapeutic, Antigen presentation system, Yeast recombinant, Subcutaneous formulation, Biological therapeutic
Last Change Date	09-Apr-2014

### GI-6207

Drug Name	GI-6207
Key Synonyms	
Originator Company	Globelmmune Inc
Active Companies	Celgene Corp, Globelmmune Inc, National Cancer Institute
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Medullary thyroid cancer
Target-based Actions	CD66e modulator
Other Actions	Recombinant vector vaccine, Therapeutic vaccine, Anticancer
Technologies	Yeast recombinant, Subcutaneous formulation, Biological therapeutic
Last Change Date	09-Apr-2014

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# GI-6301

Drug NameGI-6301Key SynonymsGlobelmmune IncOriginator CompanyGlobelmmune IncActive CompaniesCelgene Corp, Globelmmune IncInactive CompaniesHighest StatusHighest StatusPhase 2 ClinicalActive IndicationsBreast tumor, ChordomaTarget-based ActionsBrachyury protein modulatorOther ActionsAnticancer, Recombinant fungal vector vaccine, Immunostimulant, Therapeutic vaccineTechnologiesAntigen presentation system, Yeast recombinant, Biological therapeutic, Parenteral formulation unspecifiedLast Change Date23-Apr-2015		
Originator Company Globelmmune Inc Celgene Corp, Globelmmune Inc Inactive Companies Highest Status Phase 2 Clinical Active Indications Breast tumor, Chordoma Target-based Actions Brachyury protein modulator Other Actions Anticancer, Recombinant fungal vector vaccine, Immunostimulant, Therapeutic vaccine Antigen presentation system, Yeast recombinant, Biological therapeutic, Parenteral formulation unspecified	Drug Name	GI-6301
Active Companies  Celgene Corp, Globelmmune Inc  Inactive Companies  Highest Status  Phase 2 Clinical  Active Indications  Breast tumor, Chordoma  Target-based Actions  Brachyury protein modulator  Other Actions  Anticancer, Recombinant fungal vector vaccine, Immunostimulant, Therapeutic vaccine  Antigen presentation system, Yeast recombinant, Biological therapeutic, Parenteral formulation unspecified	Key Synonyms	
Inactive Companies  Highest Status  Phase 2 Clinical  Active Indications  Breast tumor, Chordoma  Target-based Actions  Brachyury protein modulator  Other Actions  Anticancer, Recombinant fungal vector vaccine, Immunostimulant, Therapeutic vaccine  Technologies  Antigen presentation system, Yeast recombinant, Biological therapeutic, Parenteral formulation unspecified	Originator Company	Globelmmune Inc
Highest Status Phase 2 Clinical  Active Indications Breast tumor, Chordoma  Target-based Actions Brachyury protein modulator  Other Actions Anticancer, Recombinant fungal vector vaccine, Immunostimulant, Therapeutic vaccine  Technologies Antigen presentation system, Yeast recombinant, Biological therapeutic, Parenteral formulation unspecified	Active Companies	Celgene Corp, Globelmmune Inc
Active Indications  Breast tumor, Chordoma  Target-based Actions  Brachyury protein modulator  Other Actions  Anticancer, Recombinant fungal vector vaccine, Immunostimulant, Therapeutic vaccine  Antigen presentation system, Yeast recombinant, Biological therapeutic, Parenteral formulation unspecified	Inactive Companies	
Target-based Actions  Brachyury protein modulator  Other Actions  Anticancer, Recombinant fungal vector vaccine, Immunostimulant, Therapeutic vaccine  Technologies  Antigen presentation system, Yeast recombinant, Biological therapeutic, Parenteral formulation unspecified	Highest Status	Phase 2 Clinical
Other Actions  Anticancer, Recombinant fungal vector vaccine, Immunostimulant, Therapeutic vaccine  Technologies  Antigen presentation system, Yeast recombinant, Biological therapeutic, Parenteral formulation unspecified	Active Indications	Breast tumor, Chordoma
Technologies vaccine  Antigen presentation system, Yeast recombinant, Biological therapeutic, Parenteral formulation unspecified	Target-based Actions	Brachyury protein modulator
Parenteral formulation unspecified	Other Actions	
Last Change Date 23-Apr-2015	Technologies	
	Last Change Date	23-Apr-2015

## GI-2010

Drug Name	GI-2010
Key Synonyms	
Originator Company	Globelmmune Inc
Active Companies	Globelmmune Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	HIV infection
Target-based Actions	HIV GAG protein modulator
Other Actions	Therapeutic vaccine, Recombinant fungal vector vaccine, Antiviral, Immunostimulant
Technologies	Antigen presentation system, Viral core protein, Yeast recombinant, Biological therapeutic, Parenteral formulation unspecified
Last Change Date	19-Nov-2013

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# GI-18000

Drug Name	GI-18000
Key Synonyms	
Originator Company	Globelmmune Inc
Active Companies	Globelmmune Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Hepatitis D virus infection
Target-based Actions	
Other Actions	Anti-inflammatory, Antiviral, Unspecified drug target
Technologies	Antigen presentation system, Yeast recombinant, Biological therapeutic, Parenteral formulation unspecified
Last Change Date	19-Nov-2013

## GI-19000

Drug Name	GI-19000
Key Synonyms	
Originator Company	Globelmmune Inc
Active Companies	Globelmmune Inc, Colorado State University
Inactive Companies	
Highest Status	Discovery
Active Indications	Mycobacterium tuberculosis infection
Target-based Actions	
Other Actions	Prophylactic vaccine, Antibacterial, Unspecified drug target, Therapeutic vaccine
Technologies	Yeast recombinant, Biological therapeutic, Parenteral formulation unspecified
Last Change Date	20-Jan-2015

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