



EST. 1980

CAYMAN CHEMICAL COMPANY

OUR HISTORY

Incorporated on June 6, 1980, Cayman Chemical Company was born from the goal of our founder and CEO, Dr. Kirk Maxey, to demonstrate the value of naturally growing gorgonian corals as a renewable, economically viable source of prostaglandins. Careful environmental studies and negotiations with the Grand Cayman government culminated in August of 1981 when an eight-pound sample of the gorgonian *Plexaura homomalla* was collected near Fisherman's Cay. The coral was frozen and transported to a small lab in Denver, Colorado where 30 grams of Prostaglandin A₂ were extracted. Inspired by this success and the vision of providing affordable, high-quality prostaglandins to the research community, Dr. Maxey's nascent laboratory offered five prostaglandin standards. After several years of growth in Denver, headquarters were relocated to Ann Arbor, Michigan where Cayman established its first complete synthetic chemistry laboratory.

TODAY

Since our founding, Cayman has continued to add products to our growing catalog to help meet the needs of the research community. Our capabilities have grown to include active pharmaceutical ingredient manufacturing, analytical standard production (with a specialization in forensic and lipidomics applications), contract services, pre-clinical drug development, research grant support, and community outreach. Through all these endeavors, we remain committed to our origins and our founding vision: to provide affordable, high-quality products and to serve the research community.



LOCATION

Ann Arbor, MI · USA

OWNERSHIP

Private

FOUNDED

1980

EMPLOYEES

400+

SCIENTISTS

150+

FACILITIES

290,000 ft²

DISTRIBUTION

100+ countries

ACCREDITATIONS

ISO/IEC 17025:2017 &
ISO 17034:2016
[Reference Materials]

ISO 9001, ISO 14001, &
OHSAS 18001
[API Manufacturing]

SUBSIDIARIES

CAYMAN PHARMA

Neratovice, Czech Republic

CAYMAN EUROPE

Tallinn, Estonia

BIOMOL

Hamburg, Germany

MATREYA, LLC

State College, PA · USA

OUR MISSION

Our mission is to help make research possible by supplying scientists worldwide with biochemical tools, products, and services to advance medical research and enable new therapies.

HELPING MAKE RESEARCH POSSIBLE



DIVERSE RANGE OF PRODUCTS

- 15,000+ Products
- 20+ Applications
- 12+ Research Areas
- Lab Equipment

MULTIPLE MARKETS

- Biotechnology
- Academia
- Government
- Health & Beauty
- Pharmaceutical
- Private Research
- Contract Testing Labs

RESEARCH COMMUNITY SUPPORT

- Sponsorships
- Poster Promotion
- Literature & Media
- Travel Grants
- Free Analysis Tools
- Thesis Printing

CONTRACT SERVICES

- Bioanalysis & Assay Development
- Analytical Chemistry
- Medicinal Chemistry & Structure-Based Drug Design
- Chemical Synthesis

BIOMEDICAL RESEARCH PRODUCTS

HELPING MAKE RESEARCH POSSIBLE

Cayman's vast knowledge in lipid and protein biochemistry has fostered the production of reagents of exceptional quality for research in lipidomics, cell biology, cancer, oxidative stress, inflammation, immunology, metabolism, cardiovascular disease, neuroscience, and epigenetics. Many specialized products for additional lines of research in forensic chemistry and toxicology are also available.

CANCER

CARDIOVASCULAR DISEASE

CELL BIOLOGY

ENDOCRINOLOGY & METABOLISM

EPIGENETICS

FORENSIC CHEMISTRY & TOXICOLOGY

IMMUNOLOGY & INFLAMMATION

LIPID BIOCHEMISTRY

NEUROSCIENCE

OXIDATIVE STRESS & REACTIVE SPECIES

PLANT BIOLOGY

TOXICOLOGY

PRODUCT TYPES

For more than 35 years, we have been creating and supplying small molecules, biochemicals, assay kits, antibodies, and proteins to scientists around the world. Each product is backed by a staff of customer service and technical support specialists who are available by phone, email, and fax. Our support staff is in turn bolstered by our community of more than 150 in-house scientists.



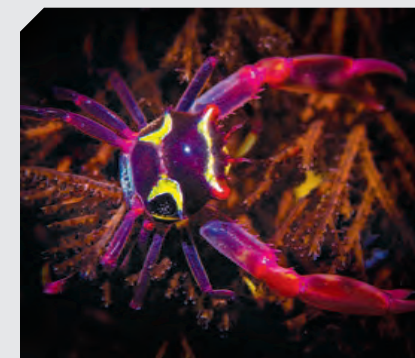
ANTIBODIES

We have thoroughly tested primary and secondary antibodies for diverse applications, including Western blot, flow cytometry, immunohistochemistry, and immunofluorescence. Our primary antibodies are directed against target receptors, proteins, enzymes, and post-translational modification and our secondary antibodies are labeled with HRP, AP, fluorescein, rhodamine, APC, biotin, Texas Red, and more.



ASSAY KITS

Cayman offers hundreds of immunoassay, cell-based assay, and enzyme activity assay kits in a variety of easy-to-use formats to monitor biomarkers, assess cellular health, and measure enzyme activity/inhibition. We also offer custom assay development through our Contract Services Division.



BIOCHEMICALS

Our small molecules and biochemicals are synthesized, purified, and characterized by a team of 60+ staff chemists. They range from drug-like heterocycles, complex biolipids, and fatty acids to inhibitors, activators, modulators, natural products, and cannabinoids, as well as classical and emerging drugs of abuse.



PROTEINS

We provide hundreds of recombinant proteins and active enzymes that have been cloned, expressed, and purified by our in-house scientists whose capabilities include bacterial, insect, and mammalian expression systems.

ANALYTICAL STANDARDS

HELPING MAKE RESEARCH POSSIBLE

Cayman offers thousands of high-quality analytical standards suitable for a wide range of research purposes from basic research to analytical testing and pre-GMP applications. Our standards are highly characterized, rigorously tested, and backed by quality documentation, certifications, and accreditations.

FORENSIC CHEMISTRY & TOXICOLOGY

Cayman has become a leader in the field of new psychoactive substances by providing high-purity reference standards for forensic analysis to federally licensed laboratories and qualified academic research institutions. It is our commitment to quality, and dedication to the communities we serve, that drives our scientists to quickly make analytical reference standards that help identify, confirm, and quantify drugs of abuse.

Cayman is committed to ensuring and maintaining our quality in all aspects of our reference material production and has dual accreditation to ISO/IEC 17025 and ISO 17034 for the manufacture of highly qualified materials with the documented metrological traceability needed for laboratories that rely on highly traceable standards for quantitative and qualitative testing.



LIPIDOMICS

We are experts in the synthesis, purification, and characterization of lipids. We offer thousands of lipid products in our catalog, including our very own line of MaxSpec® standards and kits. MaxSpec® standards and kits were designed to help customers achieve quantitative accuracy and interlaboratory reproducibility and are backed by our MaxSpec® Quality Guarantee.

CANNABIS TESTING

Authentic reference standards for the most prominent phytocannabinoids, as well as terpene and pesticide standards for quality testing of *Cannabis* and *Cannabis*-infused products.

ENVIRONMENTAL

Standards to help study the toxins and contaminants found in aquatic systems, agriculture, and soil.

CONTRACT SERVICES

HELPING MAKE RESEARCH POSSIBLE

Cayman Contract Services provides discovery and pre-clinical development services to the global pharmaceutical, biotechnology, and academic research markets. Our diverse suite of services leverages a team of over 150 highly skilled scientists with expertise in medicinal chemistry, structure-based drug design, complex multi-step organic synthesis, analytical chemistry, sample analysis, and custom assay development. We offer a personalized, flexible approach that enables our clients to accelerate their drug discovery and development through a single-source partner, from novel drug design and synthesis to target identification and validation.

BIOANALYSIS & ASSAY DEVELOPMENT

Sample Analysis

- Biomarker profiling
- Activity screening
- Lipidomic profiling
- Immunoepitome profiling
- Proteomic profiling and PTM analysis
- Cellular metabolism and bioenergetics analysis

Custom Assay Development

- Immunoassays
- Mass spectrometry-based assays
- Enzyme activity assays
- Cell-based assays
- Reporter assays

MEDICINAL CHEMISTRY & STRUCTURE-BASED DRUG DESIGN

Drug Design, SAR, and Process Scaling

- *In silico* drug design and selectivity assessment
- Parallel library generation
- Structure-activity relationship studies
- Lead optimization and development
- Route development and scale-up
- Pre-GMP process development

Structural Biology Core

- Recombinant protein production and characterization
- Biophysical characterization and optimization
- Protein crystallization
- Structure determination by X-ray crystallography
- *In silico* docking and homology modeling

ANALYTICAL CHEMISTRY

Qualitative and Quantitative Analysis

- HPLC, LC-MS, GC-MS, NMR, and Karl Fischer testing
- Solubility, metabolism, rate of release, and pharmacokinetics testing
- Deformulation for active ingredient, impurity limit, and stability testing

CHEMICAL SYNTHESIS

Multi-Step, Complex Organic Synthesis

- Process scale-up (mg to 0.5 kg)
- Stable isotopic labeling
- Conjugation chemistry

API MANUFACTURING & DEVELOPMENT

HELPING MAKE RESEARCH POSSIBLE

Most of Cayman's APIs are manufactured at the Manufacturing Center of Excellence in the Czech Republic. The Manufacturing Center of Excellence is ISO 9001, ISO 14001, and OHSAS 18001 certified and has recently completed construction of nine new product-dedicated manufacturing suites allowing for full-scale production of emerging products from our development pipeline.

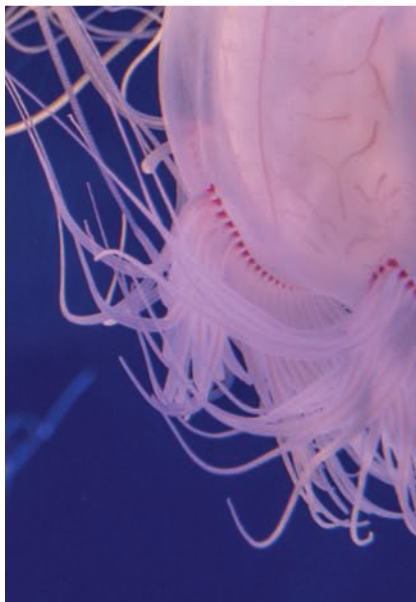
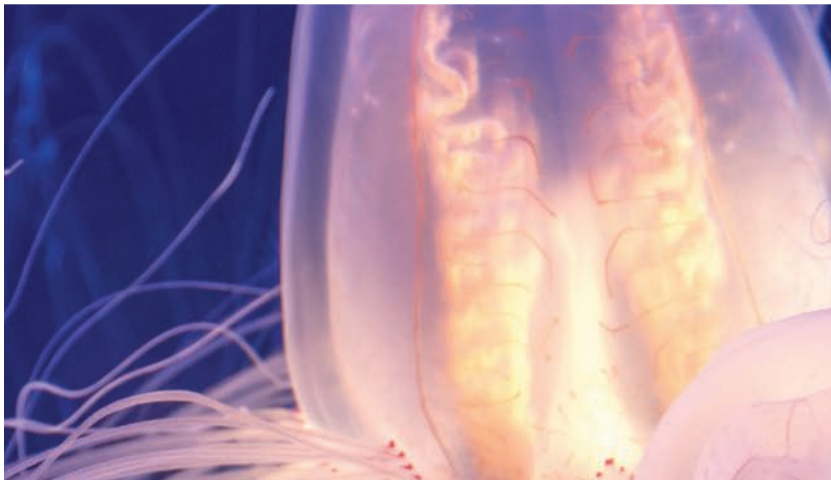
PROSTAGLANDIN APIs

Cayman is the industry leader in prostaglandin synthesis and has filed numerous patents for the complex synthesis and commercial manufacture of more than 10 APIs.



R&D SERVICES

Cayman Contract Services helps companies turn new drug ideas into reality. Whether for phase I, phase II, phase III, or toxicology studies, Cayman specializes in developing new synthetic routes while providing all necessary support to ensure regulatory compliance.



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