

# BIO Scientific pty. ltd.

Newsletter January 2017 – *Happy New Year*

BioScientific aims to keep our researchers and customers updated with news from our various suppliers  
We look forward to bringing you new and innovative products for your research in 2017!



## Quality Immunological Adjuvants

**TiterMax® Gold** - A New and Improved Research Adjuvant - The key to the potency of **TiterMax® Gold** lies in both the immunostimulatory activity of its new block copolymer, CRL-8300, and its ability to form a stable water-in-oil emulsion. **TiterMax® Gold** can be used with a wide variety of antigens which can be entrapped in a water-in-oil emulsion. Like **TiterMax® Classic**, **TiterMax® Gold** does not contain mineral oil, proteins, polysaccharides or other microbial products, thereby minimizing or eliminating the undesirable side effects caused by Freund's Complete Adjuvant

**TiterMax® Classic** - Potent Vaccine Adjuvants for Clinical Trials - Freund's Complete Adjuvant (FCA) has been used for over 50 years for producing antisera in animals. The severity of its toxicity was recognized immediately, but attempts to find a less toxic and equally effective alternative have not been successful. With advances in many areas of the biological sciences and increasing concern for the welfare of experimental animals, there was increased pressure to ban or restrict the use of FCA. In 1990, we introduced **TiterMax®**, which has the reliability and effectiveness of FCA without the toxic side effects.

For pricing and further information, please email - [info@biosci.com.au](mailto:info@biosci.com.au)



To meet your research needs, Jena Bioscience offers more than 1000 functionally active and highly purified recombinant proteins. Our portfolio covers a wide range of functions and applications

### Recombinant Proteins

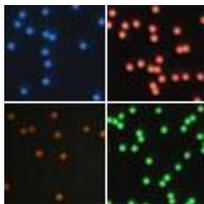
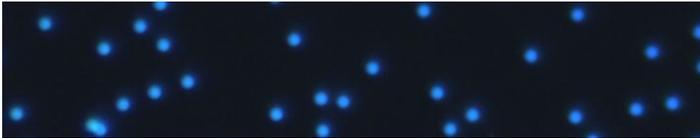
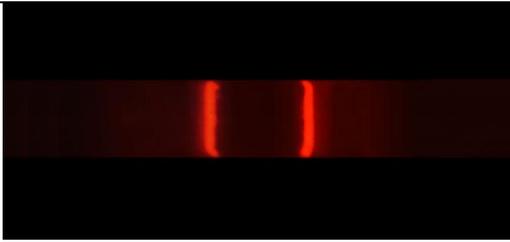
[GTP Signal Transduction Proteins](#)  
[Viral and Microbial Proteins](#)  
[Cytokines and Growth Factors](#)  
[Antioxidants](#)  
[GPCRs \(G-Protein Coupled Receptors\)](#)  
[Sirtuins](#)  
[Protein Kinases and Phosphatases](#)  
[Amyloid and Prion Proteins](#)  
[Carbonic Anhydrases](#)

Check more information: [www.jenabioscience.com](http://www.jenabioscience.com)

### Purification

[Nucleotide binding Proteins](#)  
[Phospho-Aminoacid binding Proteins](#)  
[Poly\(A\)-binding Proteins](#)  
[GST-tagged Proteins](#)  
[His-tagged Proteins](#)  
[Antibody Immobilization](#)  
[CLICK-functionalized Proteins](#)  
[Glycosylated Proteins](#)  
[Auxiliary Equipment](#)

Further details – [info@biosci.com.au](mailto:info@biosci.com.au)



Our europium products offer extremely bright fluorescence and exceptional stability, in addition to well-functionalized carboxylated surfaces for the covalent attachment of ligand. Europium Chelate spheres have been utilized for highly sensitive assays (microplate, lateral flow) based on time-resolved fluorescence and as particulate labels in chemiluminescence assays. The beads are supplied as ~1% solids (w/v) aqueous suspensions.

Fluorescent microspheres are a mainstay in diagnostics and life sciences research, finding use as fluorescent markers, assay substrates, and instrument standards. In order to meet the unique performance criteria required of microparticles in these different applications we stock an extensive inventory of fluorescent microspheres and offer custom dyeing services.

Our StarLight™ Calibration Slides feature vibrant ~6µm fluorescent microspheres dyed with a single fluorophore for basic imaging checks and calibration. Our four standard versions are appropriate for use with common microscope filter sets: Glacial Blue (360, 450), Dragon Green (480, 520), Envy Green (525, 565), and Flash Red (660, 690). The calibration slides are available individually or as the full 4-slide collection.

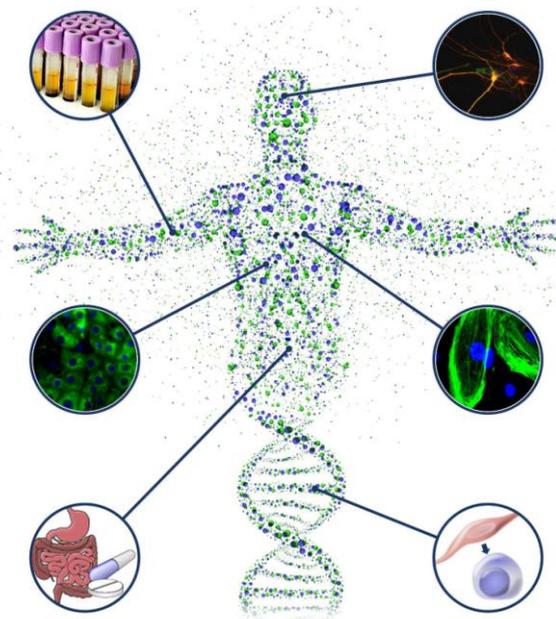
Pricing available – [info@biosci.com.au](mailto:info@biosci.com.au)



The new **DetectX® Allopregnanolone Monoclonal Antibody Based EIA kit (K061-H)** is designed to quantitatively measure Allopregnanolone present in extracted serum, plasma, or dried fecal samples, or in diluted urine and tissue culture media samples. In addition to the reliability and long term supply stability offered by monoclonal antibodies, this new kit (**K061-H**) is more sensitive than our original **allopregnanolone EIA kit (K044-H)**, provides increased signal, and has a better cross reactivity profile.

Allopregnanolone Monoclonal Antibody Based EIA Kits	Allopregnanolone EIA Kit	Allopregnanolone Chemiluminescent Immunoassay Kit
<b>K061-H</b> Extracted serum, EDTA or heparin plasma, dried fecal samples, diluted urine and tissue culture media	<b>K044-H</b> Extracted serum, EDTA or heparin plasma, dried fecal samples, diluted urine and tissue culture media	<b>K044-C</b> Extracted serum, EDTA or heparin plasma, dried fecal samples, diluted urine and tissue culture media

The ReproCELL group is dedicated to providing researchers with single source bench-to-bedside solutions for the advancement of stem cell and human tissue research in drug discovery and regenerative medicine - [Email now for your copy of the products and services catalogue!](mailto:info@biosci.com.au)  
[info@biosci.com.au](mailto:info@biosci.com.au)

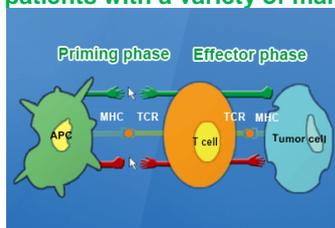


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### A Comprehensive Collection of Checkpoint Proteins

**A comprehensive collection of immune checkpoint proteins - Fc-tagged, His-tagged, Strep-tagged, and/or tag free versions of these proteins. In addition to human proteins, there are also mouse, rat, rabbit, rhesus macaque, and cynomolgus proteins for your experimental animal studies.**

Immune checkpoint pathways involve both costimulatory and inhibitory proteins. The costimulatory receptors transduce signals to promote immunity against pathogens. The inhibitory receptors, on the other hand, negatively regulate T-cell activation to prevent excessive inflammation. In recent years, immune checkpoint proteins have attracted increasing attention due to their involvement in cancer development. Often times, tumor cells can hijack the checkpoint pathways to avoid attacks from the immune system. Therefore, many believe that disabling immune checkpoints would help re-engage the body's immune system to fight against cancers. Intriguingly, anti-CTLA4 and anti-PD1 monoclonal antibodies have already demonstrated anti-tumor effect in patients with a variety of malignancies.



### Biotin-labeled & Heavy-labeled Proteins Available

Biotin labeling can make your assay development much easier. We offer a variety of ready-to-use biotinylated checkpoint proteins. These proteins are produced using our in-house developed labeling techniques, which confers high bioactivity and minimal batch-to-batch variation. In addition, we also offer heavy-labeled immune checkpoint proteins, which can be used in quantitative mass spectrometry.

### Inhibitor Screening Kit Available

We are now offering a PD1-PD-L1 inhibitor screening assay kit (Cat# EP-101) for rapid and high throughput screening of candidate inhibitory antibodies or small molecules of the PD1 pathway.

#### Bulk Recombinant Proteins (Hox)

[EGFR](#) | [ErbB2\(HER2\)](#) | [ErbB3](#)

[PCSK9](#) | [PCSK9 Mature](#)

[DKK-1](#) | [DKK-3](#)

[CD19](#) | [CD3E](#) | [CD20](#)

[VEGF165](#) | [VEGF121](#) | [VEGFR2](#)

[Full length PD1 Protein](#) | [PD-L1](#)

[ANGPT2](#) | [EpCAM](#)

[TGF-Beta1](#) | [TGF-beta RII](#)

[IL-1a](#) | [IL-4](#) | [IL-6](#) | [IL-7](#)

## BACHEM PIONEERING PARTNER FOR PEPTIDES

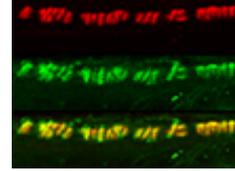


This month's highlights include news about a Platypus venom that could hold key to diabetes treatment, a better hemostatic device, peptides as tags in fluorescence microscopy and genetically engineered T cells that render HIV's harpoon powerless. View more at

[www.bachem.com](http://www.bachem.com)

### TOXIC PEPTIDES

Toxic peptides can be used to selectively block ion channels with the aim to study them or to distinguish their functions from other, not channel-dependent physiological processes. The specific and tight binding of toxins moreover can be utilized for the labeling of ion channels in fluorescence microscopy. For this purpose, either biotin-conjugated toxins, labeled with fluorophore-conjugated streptavidin or fluorophore-toxin conjugates can be used.



### Advantages

- Easy to use
- Fast and efficient wound closure
- Provides maximum holding force with minimal tissue and animal trauma
- Ergonomic design
- Automatic, unassisted application
- Reduces incidence of infection
- Autoclavable

### Wound Closure Systems

Streamline your pump implantation surgeries and save valuable time.



[Learn More](#)

### The ALZET® Osmotic Pumps Product Line

Select a pump to learn more



**ALZET** osmotic pumps are miniature, implantable pumps for research in mice, rats, and other laboratory animals. These mini pumps deliver drugs, hormones, and other test agents at continuous and controlled rates, for durations ranging from one day to six weeks, without the need for external connections or frequent handling. Their unattended operation eliminates the need for repeated nighttime or weekend dosing by lab personnel.

**ALZET** pumps are held in stock with **BIOSCIENTIFIC** for next day delivery. Pricing available - [www.biosci.com.au](http://www.biosci.com.au) or email [info@biosci.com.au](mailto:info@biosci.com.au) for a quotation

# Elabscience®



Contact Christine for your requirements -

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