

NEWSLETTER XXV

Innovative Tools for Molecular and Cell Biology

Exosome Research

IN VITRO DIAGNOSTICS
AND ASSAYS
MoBiTec

HansaBioMed: Leader in Exosome-Based Solutions for Life Sciences

High Quality Products & Customer Services

■ Lyophilized Exosome Standards

- Highly pure lyophilized Exosome Standards from human biofluids (plasma, serum, urine, saliva) and different cell culture media

■ Exosome Isolation Tools

- PURE-EVs Columns – Size exclusion chromatography columns for exosomes and microvesicles isolation
- EXO-Prep – One-step isolation of exosomes from a wide range of biofluids or cell culture media
- ELISA Immunoplates – To isolate overall exosomes or specific exosome sub-populations
- Immunobeads – Various immunobeads for exosome capture and/or enrichment

■ Exosome Quantification Kits

- ExoTEST™ – Double sandwich ELISA assay for exosome immunocapture and quantification
- Exo-FACS – Ready-to-use kit which allows exosome isolation and FACS analysis of exosome markers

■ Exosome RNA and DNA Isolation Kits

- Exosome RNA Extraction Kits – A selection of kits for extraction and purification of total RNA, including small RNAs, from immunocaptured exosomes
- EXO-DNA – Circulating and extracellular vesicle associated DNA extraction kit

■ Antibodies

- Validated antibodies for detection of exosome markers



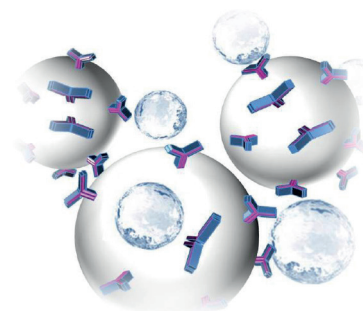
HansaBioMed – Now Available at MoBiTec

Exosome research is in rapid evolutions. The amount of publications in this field has increased exponentially. Being the oldest company entirely dedicated to exosome research, since 2007, HansaBioMed has developed unique competences and tools allowing them to help you accelerate your research and achieve your objectives quickly.

HansaBioMed
Life Sciences

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Part of **Lonza**



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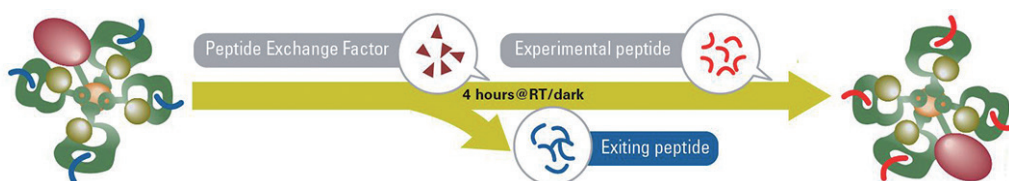
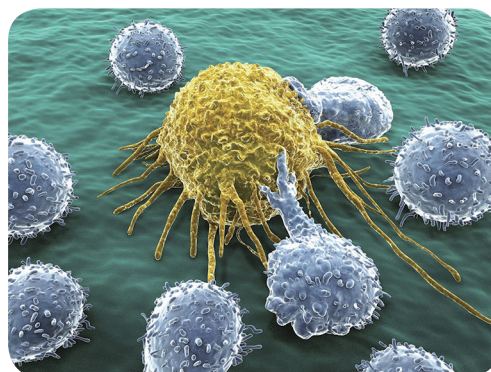
QuickSwitch™ Custom Tetramer Kits

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AND ASSAYS
MoBiTec

Fast, High-Quality Generation of New Tetramer Specificities

Rapid, high-quality creation of custom class I tetramers is now a reality! Create new specificity tetramers for antigen-specific T cell detection in just a few hours with QuickSwitch, a proprietary technology for exchanging peptides on an MHC tetramer.

- Create custom tetramers in 4 hours
- No UV or Tetramerization required
- Quantify peptide exchange
- Select ready-to-use tetramer in PE, APC, or BV421
- Identify antigen-specific T cells to your antigens of interest



Also available: Huge selection of classic MHC Tetramers and Monomers, including viral and cancer targets.

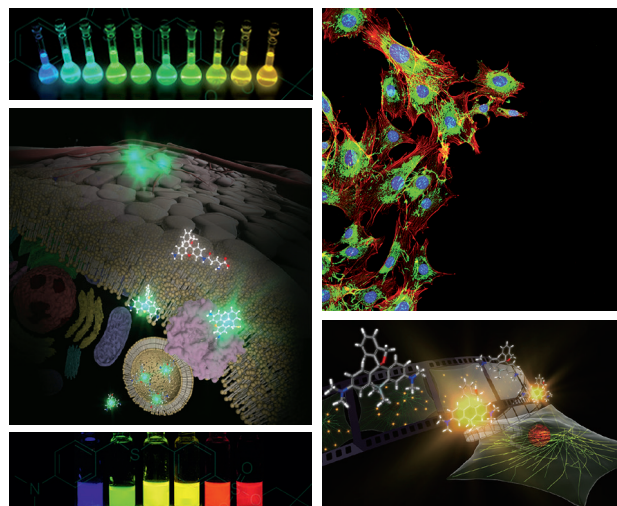
distributed for **MBL**
International Corporation

Next Generation Fluorescent Probes

FLUORESCENCE
TECHNOLOGY
MoBiTec

For Live-Cell Imaging, Flow Cytometry, Tissue Experiments, ...

- **Inorganic Biochemistry**
 - FeRhoNox™-1 – For specific detection of Fe²⁺ in living cells and in aqueous media
 - CopperGREEN – For specific detection of copper (I)
- **Live-Cell Super-Resolution Imaging**
 - HMSiR Series – Displays spontaneous blinking with low-power excitation light and without additives
 - Imaging possible under physiological conditions
 - Overcoming the problems of dSTORM: performing super-resolution imaging without thiols, oxygen scavengers, or high-power laser irradiation
- **Reactive Oxygen Species**
 - OxiORANGE™ – Detection of hydroxyl radical (·OH) and hypochlorous acid (HClO) in living cells
 - For multicolor imaging with green and blue fluorophores
 - High photostability, suitable for time-lapse imaging of intracellular ROS generation
- **Gene Analysis / Senescence**
 - GlycoYELLOW™-βGal – Visualization of β-galactosidase and SA-β-Gal
 - Gene analysis of *lacZ* gene
 - Monitoring transfection efficiency
 - Promoter or enhancer studies
 - For live-cell imaging of Senescence-associated beta-galactosidase (SA-β-gal) in senescent cells



distributed for **GORYO** CHEMICAL

Order Information

Order No.	Description	Amount
GC901	FeRhoNox-1™	50 µg x 10
GC902	CopperGREEN	50 nmol x 5
A201-01	HMSiR-Halo	15 nmol
A208-01	HMSiR-NHS	100 µg
A202-01	HMSiR labeled Goat anti-mouse IgG	100 µg
GC3004-01	OxiORANGE™	1 mg
GC601	GlycoYELLOW™-βGal	50 µg x 10

ELISA Kits & Antibodies

IN VITRO DIAGNOSTICS
AND ASSAYS
MoBiTec

ELISA Kits for Less Than 350,- EURO!

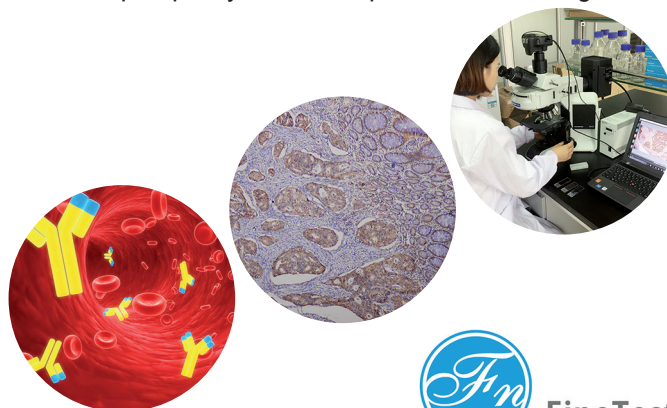
ELISA Kits

- More than 7,000 high-quality ELISA kits across 18 species
- Kits are available in two formats – as sandwich ELISA and as competitive ELISA
- High sensitivity – protein detection in a concentration of pg/ml
- High specificity ensuring low background and high signal intensity
- Long-lasting stability
- Short lead times



Antibodies

- Polyclonal, monoclonal, and labeled antibodies (FITC, HRP, Biotin, AP)
- Extensively validated on ELISA, WB, IF, IHC, IP, FC
- Antibody purity greater than or equal to 95% (determined by SDS-PAGE)
- Multiple quality control steps: lot-to-lot testing



distributed for



FineTest

ISO 9001:2008 certified company

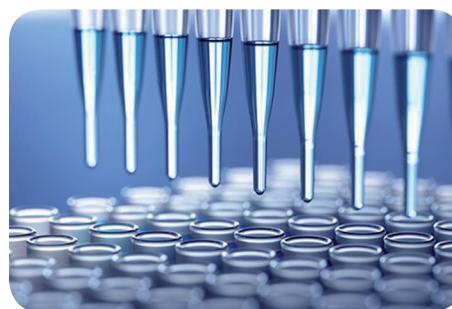
Universal Detection of Nucleotide-Dependent Enzymes

INTERACTION
SCREENING
MoBiTec

Transcreener® HTS Assays

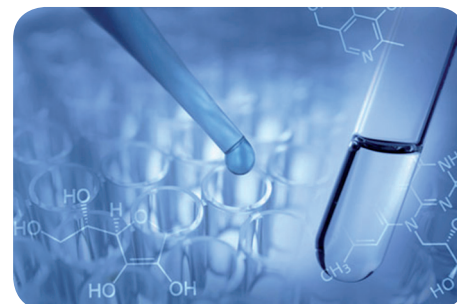
Features

- Transcreener assays rely on direct immunodetection of nucleotides, which is less susceptible to interference than complicated enzyme-coupled assay schemes
- Four types of Transcreener nucleotide detection assays enable you to screen thousands of target enzymes faster and more efficiently
- Your choice of FP, FI, and TR-FRET readouts; all with far-red fluors and certified performance on major multimode readers
- Homogenous mix-and-read format can be used for endpoint assays or for continuous monitoring of enzyme activity
- Overnight reagent and signal stability



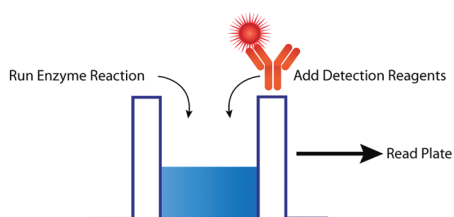
Transcreener HTS Assays:

- Screening tools to accelerate drug discovery
- Direct detection: ADP, AMP, GMP, GDP, and UDP



Also available:

- Assay development and lead discovery service



The simplest and most flexible protocol available: run your enzyme reaction, add Transcreener reagents with stop mix, and read plates.

distributed for  **BellBrook**
Labs

Cyagen Biosciences

Animal Models

- World's largest provider of custom-made mouse and rat models
- Top quality, full guarantee, and competitive prices
- Services range from DNA vector construction to embryonic stem cell manipulation, microinjection, and breeding



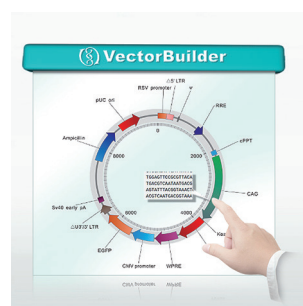
Stem Cell Products

- Comprehensive portfolio of stem cell lines, including embryonic stem cells and multiple lineage of somatic stem cells
- Variety of supplementing culture and differentiation media to support growth and maintenance of cells
- Products widely cited in high-impact journals, including Nature and PNAS



VectorBuilder – A Free Web App for Outsourcing Your Cloning Projects

- Custom vector construction
- Virus packaging
- BAC modification



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cyagen
We help you discover life

Exclusive Inhibitor Screen for Phospholipidosis

Lysosomal PLA2 Inhibitor Screen – For Predicting Drug-Induced Phospholipidosis

Features

- Novel lipid research assay
- Consistent results
- Easy-to-use format
- All reagents provided



Inhibition of Lysosomal Phospholipase A2 (LPLA2) by a drug candidate can predict its potential to cause drug-induced phospholipidosis, a serious side effect resulting in tissue inflammation and organ damage.

The LPLA2 Inhibitor Screen is a fluorogenic, high-throughput assay designed to identify problematic compounds early in the drug discovery process leading to safer medicines.

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echelon
www.echelon-inc.com

Order Information

Order No.	Description	Amount
K-7000I-EC	Lysosomal Phospholipase A2 (LPLA2) Inhibitor Screen	1 Kit

— MoBiTec



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Accelerating Scientific Discovery™



aum
BIOTECH

BellBrook
Labs



Clare Chemical Research



cyagen
We help you discover life



EdgeBio

Eurogentec
Experience true partnership



GORYO CHEMICAL

HansaBioMed
Life Sciences
Part of **Lonza**

invent
BIOTECHNOLOGIES, INC.



MBL®
International Corporation

Mirus®

MM Montana Molecular
Fluorescent Biosensors for Live Cell Discovery



PROTOBIOS
life sciences

SUMITOMO BAKELITE CO., LTD.

TargetMol
A Drug Screening Expert

TEFLABS
Empowering Research

BPBio
Ubiquitin-Proteasome Biotechnologies



••• For the most up-to-date listing of our supplier companies please visit our website •••



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