



# Cell Metabolism Kits:

## Empowering Cutting-Edge Research, Simplifying Complex Challenges



Abbkine Scientific Co.,Ltd, founded in 2017, is headquartered in Wuhan,China.The company is committed to research, manufacturing and sales of key reagents in the field of Cell assay and Cell therapy. We presents you products that cell research users prefer including: **Cell metabolism, Apoptosis (cell death), Cell proliferation, Oxidative stress, Cell damage & repair, Cell viability, Migration, invasion & chemotaxis, Stem cell research.** Meet your different experimental needs and help your cytology research career.



### CheKine™ Cell Metabolism detection kit reference citations:



Growth rate  $\geq 200\%$



Accumulated impact factor up to 5000+



Cited by 2000+ times

### CheKine™ Cell Metabolism Kit Advantages

#### 1. Extended Sample Capacity

Pre-experiment and standard sample tests, plus at least 10 additional samples.

#### 2.Trusted by Top-Tier Journals

Widely cited in Nature, Cell, and other leading publications.

#### 3. High sensitivity, non-radioactive, and ultra-stable.

Versatile Detection Methods,Colorimetric, Fluorescent & Chemiluminescent assays.

#### 4.Easy-to-use

Simple 3-Step Protocol with detailed sample prep guidelines .

#### 5.Flexible Kit Sizes

Available in 20T, 50T, 100T, and more—scalable for any lab's needs.

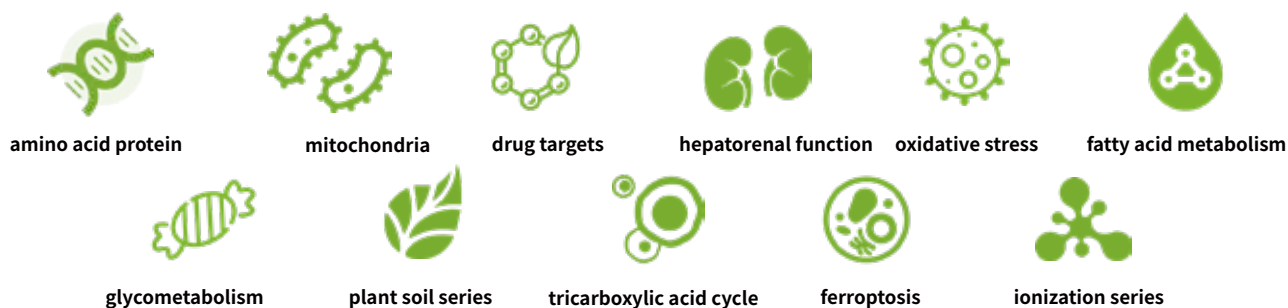
#### 6.Comprehensive Panel Kits

Themed series with multiple biomarkers—streamlined for your research.



Enabling cell research and therapy

# CheKine™ Cell Metabolism Kit



## Cell Metabolism Kit Hot Topic Series

### Mitochondrial Research

Product Name	Catalog No	Size
CheKine™ Micro Lactate Assay Kit 🔥	KTB1100	48 T/48 S;96 T/96 S;96T×5/480 S
CheKine™ Micro Mitochondrial complex I-V Activity Assay Kit 🔥	KTB1850-1890	48 T/48 S;96 T/96 S
CheKine™ Micro ATP Content Assay Kit 🔥	KTB1016	48 T/48 S;96 T/96 S
CheKine™ Luminescent ATP Detection Assay 🔥	KTB1019	48 T/48 S;96 T/96 S
CheKine™ Micro Mitochondrial Isocitrate Dehydrogenase (ICDHm) Activity Assay Kit	KTB1250	48 T/48 S;96 T/96 S
CheKine™ Micro Mitochondrial Malate Dehydrogenase(mMDH) Activity Assay Kit	KTB1280	48 T/48 S;96 T/96 S
CheKine™ Mitochondrial Reactive Oxygen Species (ROS) Production Rate Fluorometric Assay Kit 🔥	KTB1911	96 T/96 S
CheKine™ Reactive Oxygen Species (ROS) Detection Fluorometric Assay Kit 🔥	KTB1910	50 T/100 T
CheKine™ Micro Pyruvate Acid (PA) Assay Kit 🔥	KTB1121	48 T/24 S;96 T/48 S
CheKine™ Micro Coenzyme II NADP(H) Assay Kit 🔥	KTB1010	48 T/48 S;96 T/96 S
CheKine™ Micro Coenzyme I NAD(H) Assay Kit 🔥	KTB1020	48 T/48 S;96 T/96 S
CheKine™ Micro Acetyl Coenzyme A (Acetyl-CoA) Assay Kit 🔥	KTB1260	48 T/48 S;96 T/96 S
CheKine™ Micro Succinate Dehydrogenase (SDH) Activity Assay Kit	KTB1230	48 T/48 S;96 T/96 S
CheKine™ Micro Mitochondrial Transhydrogenase-1 (TH-1) Activity Assay Kit	KTB1830	48 T/48 S;96 T/96 S
CheKine™ Micro Mitochondrial Transhydrogenase-2 (TH-2) Activity Assay Kit	KTB1840	48 T/48 S;96 T/96 S

### Hot Recommendation

#### CheKine™ Micro Mitochondrial complex I Activity Assay Kit(KTB1850)

1. Determine enzyme activity of complex I in plant tissues, animal tissues, cells and other samples;
2. Provide detailed sample preparation procedure and result calculation method;
3. Easy to operate, the same extraction systems can be used universally.



## Ferroptosis

Ferroptosis is a new type of programmed cell death which is iron dependent and different from apoptosis, necrosis and autophagy.

Product Name	Catalog No	Size
CheKine™ Mirco Total Iron Ion Content Assay Kit 🔥	KTB1113	48 T/48S;96 T/96 S
CheKine™ Mirco Cell Total Iron Ion Content Assay Kit 🔥	KTB1114	48 T/48 S;96 T/96 S
CheKine™ Mirco Ferrous Ion Content Assay Kit 🔥	KTB1115	48 T/48 S;96 T/96 S
CheKine™ Mirco Cell Ferrous Ion Content Assay Kit 🔥	KTB1116	48 T/48 S;96 T/96 S
CheKine™ Micro Ferric Reductase (FCR) Activity Assay Kit	KTB1621	48 T/48S;96 T/96 S
CheKine™ Micro Total Iron-Binding Capacity (TIBC) Assay Kit	KTB2150	96 T/96S
CheKine™ Micro HephaestIn (HP) Activity Assay Kit	KTB1141	48 T/24 S;96 T/48 S
CheKine™ Micro Lipid Peroxidation (MDA) Assay kit 🔥	KTB1050	48 T/48 S;96 T/96 S
CheKine™ Micro Glutathione Peroxidase (GSH-Px) Activity Assay Kit	KTB1640	48 T/48 S;96 T/96 S
CheKine™ Micro Reduced Glutathione (GSH) Assay Kit	KTB1600	48 T/48 S;96 T/96 S
CheKine™ Reactive Oxygen Species (ROS) Detection Fluorometric Assay Kit 🔥	KTB1910	50 T/100 T
CheKine™ Mitochondrial Reactive Oxygen Species (ROS) Production Rate Fluorometric Assay Kit 🔥	KTB1911	96 T/96 S
CheKine™ Micro Cysteine (Cys) Assay Kit	KTB1450	48 T/48 S;96 T/96 S
CheKine™ Micro Lactate Dehydrogenase (LDH) Assay Kit 🔥	KTB1110	96 T/96 S;480 T/480 S

## Hot Recommendation

### CheKine™ Mirco Cell Ferrous Ion Content Assay Kit(KTB1116)

- 1. Simple operation:** eliminate homogenate procedure, extraction buffer can directly break cells;
- 2. Complete components:** provide standards and all necessary reagents required for experiments;
- 3. Reliable results:** provide typical standard curve and sample data.



## Oxidative stress

Oxidative stress (OS), as a physiological activity caused by free radicals, is a key factor leading to oxidative damage of cells and tissues, and is also the main driving force of aging and many diseases.

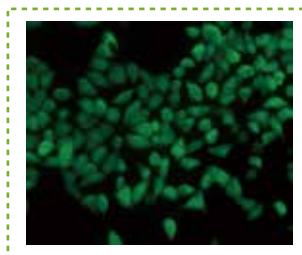
Product Name	Catalog No	Size
CheKine™ Reactive Oxygen Species (ROS) Detection Fluorometric Assay Kit 🔥	KTB1910	50T/100T
CheKine™ Mitochondrial Reactive Oxygen Species (ROS) Production Rate Fluorometric Assay Kit 🔥	KTB1911	96T/96S
CheKine™ Micro Superoxide Dismutases (SOD) Activity Assay Kit 🔥	KTB1030	48T/48S;96T/96S
CheKine™ Micro Catalase (CAT) Activity Assay Kit 🔥	KTB1040	96T/96S;480T/480S
CheKine™ Micro Hydrogen Peroxide (H2O2) Assay Kit 🔥	KTB1041	96T/96S;480T/480S
CheKine™ Micro Lipid Peroxidation (MDA) Assay kit 🔥	KTB1050	48T/48S;96T/96S
CheKine™ Mirco Lipid Peroxidation (LPO) Concent Assay Kit	KTB1051	48T/48S;96T/96

Product Name	Catalog No	Size
CheKine™ Micro Xanthine Oxidase Activity Assay Kit	KTB1070	48T/48S;96T/96S
CheKine™ Micro Superoxide anion Scavenging Capacity Assay Kit	KTB1080	48T/48S;96T/96S
CheKine™ Micro Hydroxyl Free Radical Scavenging Capacity Assay Kit	KTB1091	48T/48S;96T/96S
CheKine™ Micro Polyphenol Oxidase (PPO) Activity Assay Kit	KTB1140	48T/48S;96T/96S
CheKine™ Micro Peroxidase (POD) Activity Assay Kit	KTB1150	48T/48S;96T/96S
CheKine™ Micro Total Antioxidant Capacity (TAC) Assay Kit 🔥	KTB1500	96T/96S;480T/480S
CheKine™ Micro Polyamine Oxidase (PAO) Activity Assay Kit	KTB1901	48T/48S;96T/96S
CheKine™ Micro Coenzyme I NAD(H) Assay Kit 🔥	KTB1020	48T/48S;96T/96S
CheKine™ Micro Coenzyme II NADP(H) Assay Kit 🔥	KTB1010	48T/48S;96T/96S
CheKine™ Micro Hydroxyl Free Radical Scavenging Capacity Assay Kit 🔥	KTB1091	48T/48S;96T/96S
CheKine™ Micro Nitric Oxide (NO) Assay Kit 🔥	KTB1400	48T/48S;96T/96S
CheKine™ Pro Catalase (CAT) Fluorometric Activity Assay Kit	KTB9040	48T/24S;96T/48S
CheKine™ Micro Reduced Glutathione (GSH) Assay Kit 🔥	KTB1600	48T/48S;96T/96S
CheKine™ Micro Glutathione Oxidized (GSSG) Assay Kit 🔥	KTB1610	96T/96S
CheKine™ Micro Glutathione Reductases (GR) Activity Assay Kit	KTB1620	96T/96S;96T×5/480S
CheKine™ Micro Glutathione S-Transferase (GST) Assay Kit	KTB1630	48T/48S;96T/96S
CheKine™ Micro Glutathione Peroxidase (GSH-Px) Activity Assay Kit	KTB1640	48T/48S;96T/96S
CheKine™ Micro Total Glutathione (T-GSH) Assay Kit 🔥	KTB1670	48T/48S;96T/96S
CheKine™ Micro Thioredoxin Reductase (TrxR) Assay Kit	KTB1650	48T/48S;96T/96S
CheKine™ Micro Thioredoxin Peroxidase (TPX) Assay Kit	KTB1660	48T/48S;96T/96S
CheKine™ Micro NADH Oxidase (NOX) Assay Kit	KTB1021	48T/48S;96T/96S
CheKine™ Micro Protein Carbonyl Assay Kit	KTB1200	48T/48S;96T/96S
CheKine™ Micro Monoamine Oxidase (MAO) Activity Assay Kit	KTB1900	48T/48S;96T/96S
CheKine™ Micro Plant Flavonoids Assay Kit	KTB1530	48T/24S;96T/48S
CheKine™ Micro Plant Oligomeric Proantho Cyanidins (OPC) Assay Kit	KTB1520	48T/48S;96T/96S
CheKine™ Micro Plant Total Phenols (TP) Assay Kit	KTB1540	48T/48S;96T/96S
CheKine™ Micro Diamine Oxidase (DAO) Activity Assay Kit	KTB1220	48T/48S;96T/96S
CheKine™ Micro Ceruloplasmin Activity Assay Kit	KTB1550	96T/96S
CheKine™ Micro Advanced Oxidation Protein Products (AOPP) Assay Kit	KTB1060	96T/96S
CheKine™ Oxygen Radical Antioxidant Capacity (ORAC) Fluorometric Assay Kit	KTB1501	48T/48S;96T/96S
CheKine™ Hydroxyl Radical Antioxidant Capacity (HORAC) Fluorometric Assay Kit	KTB1502	48T/48S;96T/96S
CheKine™ Micro Dehydroascorbic Acid (DHA) Assay Kit	KTB3090	96T/96S
CheKine™ Micro Ascorbate Peroxidase (APX) Activity Assay Kit	KTB3091	48T/48S;96T/96S
CheKine™ Micro Manganese Peroxidase (Mnp) Activity Assay Kit	KTB1151	48T/48S;96T/96S
CheKine™ Micro Myeloperoxidase (MPO) Activity Assay Kit	KTB1152	48T/48S;96T/96S

## Hot Recommendation

### CheKine™ Reactive Oxygen Species (ROS) Detection Fluorometric Assay Kit(KTB1910)

- 1.Simple operation:** one-step dyeing, short time;
- 2.Positive control:** provide positive inducers, the effect is significant;
- 3.High cost performance:** less reagent consumption, saving reagent;
- 4. Good instrument compatibility:** fluorescence microplate reader and microscope, confocal can be observed.



## Glycometabolism

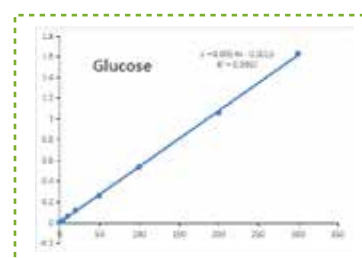
Glycometabolism can be divided into catabolism and anabolism, and the basic processes of carbohydrate metabolism in organisms are similar.

ProductName	CatalogNo	Size
CheKine™ MicroGlucoseAssayKit 🔥	KTB1300	96T/96S;192T/192S
CheKine™ MicroGlucoseOxidaseActivity(GOD)AssayKit 🔥	KTB1310	96T/96S;480T/480S
CheKine™ Micro6-PhosphogluconateDehydrogenaseActivityAssayKit	KTB1013	48T/48S;96T/96S
CheKine™ MicroGlucose-6-Phosphatase(G6P)ActivityAssayKit	KTB1014	48T/48S;96T/96S
CheKine™ Microα-glucosidase(α-GC)ActivityAssayKit	KTB1015	96T/48S
CheKine™ MicroGlucose-6-Phosphate(6PG)ContentDetectionKit	KTB1025	48T/24S;96T/48S
CheKine™ MicroGlucoseDehydrogenase(GCDH)ActivityAssayKit	KTB1026	48T/24S;96T/48S
CheKine™ MicroPlantSolubleSugarAssayKit	KTB1320	96T/96S
CheKine™ MicroPlantTissueFructose(FT)ContentAssayKit	KTB1321	48T/48S;96T/96S
CheKine™ MicroFructose-1,6Diphosphate(FDP)ContentAssayKit	KTB1328	48T/48S;96T/96S
CheKine™ MicroBloodGlucoseAssayKit	KTB1330	48T/48S;96T/96S
CheKine™ MicroGlycogenAssayKit	KTB1340	96T/96S
CheKine™ MicroGlycogensynthase(GCS)ActivityAssayKit	KTB1341	48T/48S;96T/96S
CheKine™ MicroTotalPolysaccharideContentDetectionKit	KTB1351	48T/48S;96T/96S
CheKine™ MicroReducingSugar(RS)AssayKit	KTB1360	48T/48S;96T/96S
CheKine™ ProGlucoseFluorometricAssayKit	KTB9300	48T/48S;96T/96S
CheKine™ Microα-AmylaseActivityAssayKit	KTB1370	96T/96S
CheKine™ MicroStarchAssayKit	KTB1371	96T/96S
CheKine™ MircoSolubleStarchSynthase(SSS)ActivityAssayKit	KTB1372	48T/48S;96T/96S

## Hot Recommendation

### CheKine™ Micro Glucose Assay Kit(KTB1300)

- The optimized experimental procedure is used to measure glucose concentration in different samples (serum, plasma, urine, culture medium, bacteria, animal and plant tissues and other biological fluids);
- Fast and convenient colorimetric method;
- Provide optimized standard curve.



## Fatty acid metabolism

Fatty acid metabolism consists of various metabolic processes involving or closely related to fatty acids, which can be divided into energy-producing catabolic processes and anabolic processes.

Product Name	Catalog No	Size
CheKine™ Micro Triglyceride (TG) Assay Kit 	KTB2200	48T/48S;96T/96S
CheKine™ Micro Free Cholesterol (FC) Assay Kit 	KTB2210	48T/48S;96T/96S
CheKine™ Micro Total Cholesterol (TC) Assay Kit 	KTB2220	48T/48S;96T/96S
CheKine™ Micro Free Fat Acid (FFA) Assay Kit 	KTB2230	48T/48S;96T/96S
CheKine™ Micro Alanine Aminotransferase (ALT/GPT) Activity Assay Kit	KTB1410	96T/48S
CheKine™ Micro Aspartate Aminotransferase (AST/GOT) Activity Assay Kit	KTB1420	96T/48S
CheKine™ Micro Fatty Acid Synthetase(FAS) Activity Assay Kit	KTB2240	48T/48S;96T/96S
CheKine™ Mirco Lipase (LPS) Activity Assay Kit	KTB2241	48T/48S;96T/96S
CheKine™ Micro Soil Lipase (S-LPS) Activity Assay Kit	KTB4026	48T/48S;96T/96S
CheKine™ Micro High Density Lipoprotein Cholesterol (HDL-C) Assay Kit	KTB2250	48T/48S;96T/96S
CheKine™ Micro Low Density Lipoprotein Cholesterol (LDL-C) Assay Kit	KTB2260	48T/48S;96T/96S

## Hot Recommendation

### CheKine™ Micro Triglyceride (TG) Assay Kit (KTB2200)

1. The optimized experimental procedure is used to detect triglyceride concentration in different samples (serum, plasma, culture medium, cells, bacteria, animal and plant tissues, etc.);
2. Provide complete components to quickly finish the experiment using colorimetric method .

## Quality assurance and after-sales commitment

### Quality guarantee

Our company solemnly promises that we will always adhere to the principle of quality first in the production process, continuously improve product quality, and ensure the reliability of products.

### Professional technical tracking service

Pre-sales & after-sales technical support to help customers quickly solve technical problems encountered in the process of using the kit.

### After-sales technical support

Customer satisfaction first, if not satisfied, Abbkine will provide timely refund and return services

### Abbkine Scientific Ltd

Abbkine Biotechnology Co., Ltd was, founded in 2017, is headquartered in Wuhan, China. The company is committed to the research and development, manufacturing and sales of key reagents in the field of cell assay and cell therapy, and has become a key enabler of innovation in the field of cell pharmaceutical globally.

For more information, please visit Abbkine Scientific: <https://www.abbkine.com>  
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The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.



Enabling cell research and therapy