




Induce great cell culture status, present a new atmosphere of vibrant color and fragrance!

## Colorful tools for cell culture applications

Abbkine provides cytokines with high quality & high activity, ELISA kits with high specificity & sensitivity, universal & standardized cell apoptosis/proliferation detection kits, SuperKine™ Maximum Sensitivity Cell Counting Kit-8 (CCK-8) with high sensitivity & high throughput screening and other products related to cell culture applications which can meet your different experiment needs and help your cytology research career.



Recombinant human tumor necrosis factor- $\alpha$  (TNF- $\alpha$ ) is a cytokine related to systemic inflammation which is involved in anti-tumorigenesis and has become the target of many drugs. The recombinant TNF- $\alpha$  protein of Abbkine was expressed and purified from *Escherichia coli*. The content of endotoxin is lower than 1.0 EU/ $\mu$ g protein and the purity is above 95%. ED50 is 25-100 pg/mL. With the advantage of low endotoxin level and high purity, it is the best choice for cell culture.

 Cat NO: PRP1013 | Size: 10  $\mu$ g/50  $\mu$ g/100  $\mu$ g/1 mg

 Cytokines

 ELISA kit|Cell Apoptosis/proliferation

 Exclusive

 Cell Freezing Medium|CCK-8

 HOT



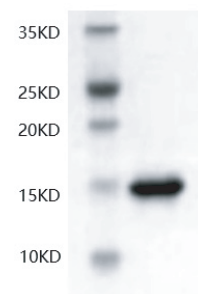
## Cytokine

Cytokine is the general name of a class of small molecular protein (5-20 kDa) with biological effect synthesized and secreted by immune cells and some non-immune cells. They are secreted by macrophages, B cells, T cells and other immune cells as well as endothelial cells, fibroblasts, stem cells and other non-immune microcells. It is a unique cell signal molecule which plays an important role in cell proliferation and development. Abbkine provides cytokines including interleukin, chemokines, colony-stimulating factors (CSF), interferon, transforming growth factor (TGF) and tumor necrosis factor (TNF) families which can be used in cancer, apoptosis, endocrinology, immunology, neuroscience, protease and stem cell research. These cytokines have been rigorously validated to meet the needs of R&D personnel for high quality, high biological activity and competitive price.



### Product advantages and features

- ★ **Low endotoxin:** <1.0 EU per microgram protein, determined by LAL method ;
- ★ **Lyophilized powder package:** safe and secure, there is no need to worry about the quality of purchased product, outer package adopts EP tube with non-heat source&non-endotoxin to eliminate the interference of endotoxin;
- ★ **High Purity :** >95%, every cytokine was equipped with 1 mL of the most compatible reconstitution buffer, and the product performance was more stable after reconstitution.



### Related Product Recommendation

Product Name	Species	Cat. No.	Size
Human bFGF protein	Human	PRP1010	10 µg/50 µg/100 µg/1 mg
Human TNF-α protein	Human	PRP1013	10 µg/50 µg/100 µg/1 mg
Human IL-1β protein	Human	PRP1019	5 µg/20 µg/100 µg /1 mg
Mouse IL-1β protein	Mouse	PRP1119	5 µg/20 µg/100 µg/1 mg
Mouse TNF-α protein	Mouse	PRP1113	5 µg/20 µg/100 µg/1 mg
Mouse IL-4 protein (Animal-Free)	Mouse	PRP2117	5 µg/20 µg/100 µg
Human IL-6 protein	Human	PRP1012	5 µg/20 µg/100 µg/1 mg
Mouse IFN-γ protein, His Tag	Mouse	PRP1015	20 µg/100 µg/500 µg/1 mg
Human IL-2 protein	Human	PRP1025	10 µg/50 µg/100 µg/1 mg
Mouse bFGF protein	Mouse	PRP1011	10 µg /50 µg/100 µg/1 mg
Human IL-4 protein	Human	PRP2017	10 µg /50 µg/100 µg/1 mg
Mouse TGF beta 1 protein, His tag (Animal-Free)	Mouse	PRP1017	10 µg/50 µg/100 µg/1 mg
Mouse RANKL protein	Mouse	PRP1114	2 µg/10 µg/100 µg/1 mg
Human GM-CSF protein (Animal-Free)	Human	PRP2016	5 µg/20 µg/100 µg
Mouse IFN-γ protein, His Tag	Mouse	PRP1015	20 µg/100 µg/500 µg/1 mg

## Not only cytokine products with low endotoxin & high purity



Abbkine also develops high-quality EliKine™ ELISA kits related to cytokine detection and provides standardized & highly cost-effective cocktail kits for apoptosis/proliferation status detection.

### EliKine™ ELISA Kit

With validated specific antibodies, high-quality reagents and optimized experimental protocols, EliKine™ ELISA product line provides you with a high sensitive and high specific assay for the detection of various cytokines in human, mouse, rat and other species. In addition to the well-known double-antibody sandwich ELISA, the competitive ELISA is often used to detect the content of small molecule in samples, such as hormones, peptides, etc, by detecting the signal of the interference and based on the standard correction.

Product Name	Species	Cat. No.	Size
EliKine™ Mouse TNF- $\alpha$ ELISA Kit	Mouse	KTE7015	48 T/96 T
EliKine™ Mouse IL-6 ELISA Kit	Mouse	KTE7009	48 T/96 T
EliKine™ Human IL-6 ELISA Kit	Human	KTE6017	48 T/96 T
EliKine™ Mouse IL-10 ELISA Kit	Mouse	KTE7010	48 T/96 T
EliKine™ Human TGF- $\beta$ 1 ELISA Kit	Human	KTE6030	48 T/96 T
EliKine™ Human TNF- $\alpha$ ELISA Kit	Human	KTE6032	48 T/96 T
EliKine™ Mouse IL-1 $\beta$ ELISA Kit	Mouse	KTE7005	48 T/96 T
EliKine™ Human VEGF ELISA Kit	Human	KTE6033	48 T/96 T
EliKine™ Rat TNF- $\alpha$ ELISA Kit	Rat	KTE9007	48 T/96 T
EliKine™ Testosterone ELISA Kit	Universal	KTE0001	48 T/96 T
EliKine™ Triiodothyronine (T3) ELISA Kit	Universal	KTE0006	48 T/96 T
EliKine™ Estradiol ELISA Kit	Universal	KTE0003	48 T/96 T
EliKine™ Thyroxine (T4) ELISA Kit	Universal	KTE0007	48 T/96 T
EliKine™ Human PD-1 ELISA Kit	Human	KTE6035	48 T/96 T
EliKine™ Human PD-L1 ELISA Kit	Human	KTE6036	48 T/96 T
EliKine™ Human IgG ELISA Kit	Human	KTE6034	48 T/96 T
EliKine™ Mouse IgG ELISA Kit	Mouse	KTE7018	48 T/96 T

### Cell apoptosis/proliferation Detection Assay kit

Annexin V method and TUNEL method, as two gold standards for apoptosis detection, almost covered the most needs of apoptosis detection. Abbkine has developed a high sensitive and universal apoptosis detection kit which can detect different stages of cell apoptosis including early and late apoptosis. It is suitable for different samples, such as tissues and cells, and can effectively distinguish between apoptosis and necrosis. The EdU cell proliferation Imaging analysis kit is a new method to replace BrdU. Detection is based on the Click reaction, a kind of copper-catalyzed covalent reaction between azide and alkyne, which can be completed within 30 min.

Product Name	Cat. No.	Size	Price/\$
Annexin V-AbFluor™ 488/PI Apoptosis Detection kit	KTA0002	50 T/100 T	109/179
Annexin V-EGFP/PI Apoptosis Detection kit	KTA0005	20 T/50 T/100 T	49/99/169
One-step TUNEL Apoptosis Assay Kit (Green Fluorescence)	KTA2010	50 T/100 T	259/459
One-step TUNEL Apoptosis Assay Kit (Orange Fluorescence)	KTA2011	50 T/100 T	259/459
EdU Cell Proliferation Image Kit (Green Fluorescence)	KTA2030	100 T/500 T	119/189
EdU Cell Proliferation Image Kit (Orange Fluorescence)	KTA2031	100 T/500 T	119/189

## Abbkine also offers other common reagents related to cell culture applications

### SuperKine™ Serum/Protein-Free Cell Freezing Medium

SuperKine™ Serum/Protein-Free Cell Freezing Medium is a kind of non-programmed and ready-to-use cell freezing medium.

Product Name	Cat. No.	Size	Flash sale	Market Price(\$)
SuperKine™ Serum/Protein-Free Cell Freezing Medium	BMU108-EN	100 mL	<b>\$109</b>	\$270/100 mL



### SuperKine™ Maximum Sensitivity Cell Counting Kit-8 (CCK-8)

SuperKine™ Maximum Sensitivity Cell Counting Kit-8 (CCK-8) is a kind of high sensitive colorimetric assay for the determination of various viable cells in cell proliferation and cytotoxicity experiment. It does not affect the downstream experiments of samples due to low toxicity.

Product Name	Cat. No.	Size	Flash sale	Market Price(\$)
SuperKine™ Maximum Sensitivity Cell Counting Kit-8 (CCK-8)	BMU106-EN	200T/1000T/10000T	<b>\$29/\$69/\$529</b>	400/1000T, 1200/10000T



### ● Application for free Trials!

Product Name	Trial Cat. No.	Size
SuperKine™ Maximum Sensitivity Cell Counting Kit-8 (CCK-8)	BMU106-EN-s	25 T
SuperKine™ Serum/Protein-Free Cell Freezing Medium	BMU108-EN	10 mL

### Abbkine Scientific Ltd

As the world's unique cell and protein product portfolio supplier, we provide basic tools and solutions in the fields of protein extraction and purification, immunoassays, cell culture separation, and metabolic analysis. Abbkine is committed to customer's success and excellence.

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.



The Path of Research