



# Cell Metabolism ELISA Kits



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Cell metabolism refers to all the orderly chemical changes in living cells, which provide necessary energy and substances, so that cells can complete their physiological processes such as growth, division, differentiation and functional maintenance. Cell metabolism involves many metabolic pathways, including glycolysis, lipid metabolism, protein metabolism, oxidative phosphorylation, nucleotide metabolism and so on.

Abnormal cell metabolism is related to the occurrence and development of many diseases, such as diabetes, obesity, cardiovascular diseases, neurodegenerative diseases, cancer and so on. It is very important to have key tools, such as an ELISA kit, which can detect the concentration changes of key proteins or enzymes and other metabolites during cell metabolism, to understand how metabolism fails in human diseases.

CUSABIO is committed to providing researchers with high-precision and high-sensitivity ready-to-use ELISA kits related to cellular metabolism, which can be used to evaluate the effects of drugs for metabolic diseases on specific protein or metabolites, find new biomarkers, and detect the expression level or phosphorylation status of specific protein to understand the relationship between cell signal transduction and metabolism, so as to provide accurate and reliable data support for your scientific research and help you make more breakthroughs in the field of cell metabolism.

## 1. Cell Metabolic Pathway

### 1.1 Lipids Metabolism:

Lipid metabolism refers to the process of synthesis, decomposition and transformation of lipids such as fatty acids, glycerol, cholesterol and other organic molecules in organisms. Lipid is not only an important source of energy in organisms, but also a key component of cell membrane structure, regulating cell signal transduction and maintaining physiological balance. Lipid metabolism includes fatty acid synthesis, lipid degradation, cholesterol synthesis and other steps. Normal lipid metabolism is essential to maintain health. Still, unbalanced lipid metabolism may lead to health problems such as high cholesterol and hyperlipidemia, and increase the risk of cardiovascular diseases.

### 1.2 Glycolysis

Glycolysis refers to the metabolic pathway in which glucose is decomposed into pyruvate and ATP in cells. In glycolysis, a six-carbon glucose is decomposed into two three-carbon pyruvic acids by a series of enzyme catalysis, and two ATP molecules (the main storage molecules of energy in cells) and two NADH molecules (coenzyme molecules with energy) are generated at the same time. Under anaerobic conditions, pyruvate can be reduced to lactic acid to maintain the regeneration of NAD<sup>+</sup>, thus maintaining glycolysis.

Abnormal glycolysis may lead to many diseases, and these abnormalities usually involve defects or mutations of enzymes in glycolytic pathway. Such as glucose-6-phosphatase or phosphofructokinase, which affects energy production and leads to hypoglycemia and other disease symptoms. In addition, in some tumor cells, due to the energy required for rapid proliferation, glycolytic pathway may be over-activated, resulting in a large amount of glucose producing lactic acid through glycolysis, which is called "aerobic glycolysis" or "Warburg effect". This phenomenon has been observed in many cancers such as breast cancer, colon cancer, gastric cancer, prostate cancer, lung cancer and ovarian cancer.

### 1.3 Protein Metabolism

Protein metabolism refers to a series of biochemical processes responsible for protein and amino acid synthesis (anabolism) and protein decomposition through catabolism. As the most basic molecular machines in life, protein participated in many biological activities, such as cell structure construction, enzyme catalysis, signal transduction, immune response and so on. Protein's anabolism refers to the process of forming protein from amino acids, which mainly includes five steps: amino acid synthesis, transcription, translation, post-translation modification and protein folding. Protein's catabolism refers to the process of breaking down into amino acids or small peptide chains through enzymes (protease, exopeptidase, endopeptidase) or environmental changes. The balance of protein metabolism is very important to maintain the normal function of cells and organisms. Abnormal protein metabolism may lead to many diseases, including liver diseases, kidney diseases, nervous system diseases, muscle diseases and some malignant tumors.

### 1.4 Nucleotide Metabolism

Nucleotide metabolism includes the process of nucleotide synthesis and degradation, in which there are two ways of nucleotide synthesis: de novo pathway and salvage pathway.

#### 1.4.1 Purine Nucleotide Metabolism:

##### ●Synthetic Metabolism

① De Novo Synthesis: The de novo synthesis pathway of purine nucleotides starts with the synthesis of inosine monophosphate (IMP), which can be converted into adenosine monophosphate (AMP) and guanosine monophosphate (GMP). The process of synthesizing IMP typically involves 10 steps, beginning with the formation of the imidazole ring and then the generation of IMP. The starting point of this synthesis process is phosphoribosyl pyrophosphate (PRPP), which is formed catalytically by 5-phosphoribosyl and ATP under the action of phosphoribosyl pyrophosphate synthetase.

② Salvage Pathway: The salvage pathway of purine nucleotides mainly involves three enzymes: adenosine kinase (ADK), adenine phosphoribosyltransferase (APRT), and hypoxanthine-guanine phosphoribosyltransferase (HGPRT).

##### ●Degradative Metabolism

The end product is uric acid, and excessive uric acid in the body can lead to gout.

#### 1.4.2 Pyrimidine Nucleotide Metabolism

##### ●Synthetic Metabolism

① De Novo Synthesis: De novo synthesis of pyrimidine nucleotides begins with the synthesis of the pyrimidine ring, which then combines with phosphoribosyl pyrophosphate (PRPP) to generate uridine monophosphate (UMP).

② Salvage Pathway: Utilizing free pyrimidine bases or pyrimidine nucleosides within the body as substrates, pyrimidine nucleotides are synthesized through simple reactions involving enzymes like pyrimidine phosphoribosyltransferase or pyrimidine nucleoside kinase.

##### ●Degradative Metabolism

Cytidine monophosphate (CMP) and UMP are first converted to uracil in this pathway, which is eventually transformed into β-alanine. Meanwhile, deoxythymidine monophosphate (dTMP) is first converted to thymidine, which is then transformed into β-aminoisobutyrate salt.

## 2. Signal Pathways in Cell Metabolism

Signal pathways in cell metabolism are a series of biochemical reactions and molecular interaction networks, which regulate important biological processes such as energy production, material transport, growth and cell fate determination. The following are several common main signal pathways in cell metabolism:

##### ● Ampk (Amp-activated Protein Kinase) Pathway

AMPK is an intracellular energy-sensing protein kinase, which can sense the energy state in cells. AMPK is activated when the ATP level in cells decreases, thus regulating various cellular metabolic pathways, including promoting glucose uptake and oxidation, inhibiting protein synthesis, and promoting autophagy, so as to maintain the energy balance in cells.

##### ● Mtor (Mammalian Target of Rapamycin) Pathway

MTOR pathway is a key cell proliferation and metabolic regulation pathway. MTOR not only senses environmental signals inside and outside cells, but also regulates biological processes such as protein synthesis, cell growth, autophagy and metabolic adaptation. This pathway plays an important role in cell growth, cancer, immunity and metabolic diseases.

##### ● Insulin Pathway

Insulin pathway is a signal transduction pathway regulated by insulin. Insulin activates internal signal pathways through receptors on the cell surface, promoting glucose uptake, protein synthesis and fatty acid synthesis, so as to maintain intracellular sugar metabolism and energy balance.

##### ● PPAR (Peroxisome Proliferator-activated Receptors) Pathway

PPAR is a nuclear receptor, which plays a key role in lipid metabolism and energy balance. When activated, PPAR can regulate fatty acid oxidation, sugar metabolism and insulin sensitivity.

##### ● NRF2 (Nuclear Factor Second-related Factor 2) Pathway

NRF2 is a transcription factor primarily involved in cellular antioxidant stress response. When cells are exposed to oxidative stress or other stressors, NRF2 proteins are released and translocated into the cell nucleus, promoting the expression of antioxidant enzymes and detoxifying enzymes. This process helps alleviate oxidative stress damage. Antioxidant enzymes can clear free radicals and oxidative stress substances within cells, maintaining the balance of oxidation-reduction processes. This balance is crucial for cellular metabolic processes, particularly in the energy production process of the mitochondrial respiratory chain..

These signal pathways are intertwined and jointly regulate the metabolic process in cells. Their normal regulation is very important for maintaining intracellular homeostasis, adapting to environmental changes and preventing metabolic diseases.

### 3. The Significance of Cell Metabolism Research

In the past, cell metabolism was often thought to only provide "housekeeping" function for organisms, but now it has been proved to have an important contribution to many cell functions. On the other hand, dysfunctional metabolism is also closely related to many different diseases. Therefore, studying the genes, protein and signal pathways that regulate cell metabolism may become a promising way to develop new drugs for metabolic diseases.

### 4.The List of CUSABIO's Cell Metabolism ELISA Kits

Code	Product Name	Sensitivity	Target
CSB-EQ027870HU	Human 6-hydroxymelatonin sulfate (6HMS) ELISA kit	10 pg/mL	6HMS
CSB-E13725h	Human Soluble Mesothelin Related Peptide(SMRP)ELISA Kit	0.078 pmol/mL	ABCC5
CSB-E16266h	Human Aldose Reductase(AR)ELISA Kit	0.078 ng/mL	AKR1B1
CSB-EL001540HU	Human Aldo-keto reductase family 1 member B10(AKR1B10) ELISA kit	0.156 ng/mL	AKR1B10
CSB-E08664b	Bovine Albumin(Alb) ELISA kit	0.148 µg/mL	ALB
CSB-E13878m	Mouse Albumin (Alb)ELISA Kit	0.110 µg/mL	ALB
CSB-E16205Hs	Horse Albumin(Alb) ELISA Kit	1.247 µg/mL	ALB
CSB-E16207p	Pig Albumin (Alb) ELISA Kit	0.03 µg/mL	ALB
CSB-E16982r	Rat Arachidonate 5-lipoxygenase (Alox5) ELISA kit	0.039 ng/mL	Alox5
CSB-E09160h	Human Placental alkaline phosphatase,PLAP ELISA Kit	34 pg/mL	ALPP
CSB-EL001689RA	Rat Pancreatic alpha-amylase(AMY2A) ELISA kit	0.78 mIU/mL	AMY2A
CSB-EL001827MO	Mouse Aminopeptidase N(ANPEP) ELISA kit	9.7 mU/mL	ANPEP
CSB-EL001899HU	Human Acylamino-acid-releasing enzyme(APEH) ELISA kit	7.81 pg/mL	APEH
CSB-EL001900HU	Human DNA-(apurinic or apyrimidinic site) lyase (APEX1) ELISA kit	3.9 pg/mL	APEX1
CSB-EL002234HU	Human Argininosuccinate synthase(ASS1) ELISA kit	1.95 pg/mL	ASS1
CSB-EL002716HU	Human Bleomycin hydrolase(BLMH) ELISA kit	7 pg/mL	BLMH
CSB-EL002854HU	Human Biotinidase(BTD) ELISA kit		BTD
CSB-E13426h	Human C1q/TNF-related protein-3,Cartonectin/CTRP3/CORS-26 ELISA Kit	0.039 ng/mL	C1QTNF3
CSB-E05132r	Rat Calcitonin,CT ELISA Kit	0.39 pg/mL	CALCA
CSB-EQ013485DO	Canine calprotectin (CALP) ELISA kit	1.56 ng/mL	CALP
CSB-EQ013485RA	Rat Calprotectin (CALP) ELISA kit	15.6 ng/mL	CALP
CSB-E13439r	Rat Catalase (CAT) ELISA kit	23.43 mIU/mL	CAT
CSB-E13635h	Human Catalase (CAT) ELISA kit	3.9 pg/mL	CAT
CSB-E14190m	Mouse Catalase (CAT) ELISA Kit	3.9 pg/mL	CAT
CSB-E13314h	Human cystathionine β-synthase(CBS) ELISA Kit	31.25 pg/mL	CBS
CSB-E08116h	Human cholecystokinin,CCK ELISA Kit	20 pg/mL	CCK
CSB-E13054Fh	Fish Cholecystokinin(CCK) ELISA Kit	125 pg/mL	CCK
CSB-E14369h	Human Adipsin ELISA Kit	0.078 ng/mL	CFD
CSB-E13608h	Human Chitinase-3-like Protein 1(YKL-40/CHI3L1)ELISA Kit	78.065 pg/mL	CHI3L1
CSB-EL005347HU	Human Chitinase-3-like protein 2(CHI3L2) ELISA kit		CHI3L2
CSB-EL005521HU	Human C-type lectin domain family 18 member A(CLEC18A) ELISA kit	0.078 ng/mL	CLEC18A
CSB-EL005521MO	Mouse C-type lectin domain family 18 member A(CLEC18A) ELISA kit	0.078 ng/mL	CLEC18A
CSB-EL005639HU	Human Beta-Ala-His dipeptidase(CNDP1) ELISA kit	0.04 ng/mL	CNDP1

Code	Product Name	Sensitivity	Target
CSB-E13756h	Human Mast Cell Carboxypeptidase ELISA Kit	0.078 ng/mL	CPA3
CSB-EL005883PI	Pig Carboxypeptidase B(CPB1) ELISA kit	0.078 ng/mL	CPB1
CSB-EL005898HU	Human Carboxypeptidase N catalytic chain(CPN1) ELISA kit	7.8 mU/mL	CPN1
CSB-EL005899HU	Human Carboxypeptidase N subunit 2(CPN2) ELISA kit	0.039 ng/mL	CPN2
CSB-E13450h	Human cathepsin B (CTSB) ELISA kit	0.078 ng/mL	CTSB
CSB-E09221h	Human cathepsin D,cath-D ELISA Kit	33 pg/mL	CTSD
CSB-E09438h	Human Cathepsin K,cath-K ELISA Kit	1.95 pg/mL	CTSK
CSB-E09440m	Mouse Cathepsin K,cath-K ELISA Kit	3.9 pg/mL	CTSK
CSB-EL006204MO	Mouse Cathepsin S(CTSS) ELISA kit	7.8 pg/mL	CTSS
CSB-EL006213MO	Mouse Cubilin(CUBN) ELISA kit	1.95 pg/mL	CUBN
CSB-EL006394FI	Fish Aromatase(ARO) ELISA Kit	25 pg/mL	CYP19A1
CSB-EL006401HU	Human 1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial (CYP24A1) ELISA kit	1.95 pg/mL	CYP24A1
CSB-EL006431HU	Human Vitamin D 25-hydroxylase(CYP2R1) ELISA kit	3.9 pg/mL	CYP2R1
CSB-E15771h	Human Cytochrome P450 ELISA kit	7.8 pg/mL	CYP450
CSB-EL007123HU	Human Dipeptidase 1(DPEP1) ELISA kit	5.86 pg/mL	DPEP1
CSB-EL007669HU	Human Adropin(ENHO) ELISA kit	0.39 pg/mL	ENHO
CSB-EL007690HU	Human Ectonucleoside triphosphate diphosphohydrolase 1(ENTPD1) ELISA kit	5.86 pg/mL	ENTPD1
CSB-EL007938HU	Human Fatty-acid amide hydrolase 1(FAAH) ELISA kit	8.6 pg/mL	FAAH
CSB-E08026r	Rat intestinal fatty acid binding protein,iFABP ELISA Kit	0.312 ng/mL	FABP2
CSB-EL008435MO	Mouse Fatty acid synthase(FASN) ELISA kit	0.78 pg/mL	FASN
CSB-E13451r	Rat fructosamin (FRA) ELISA kit	7.81 nmol/mL	FRA
CSB-EL009030MO	Mouse Ferritin heavy chain(FTH1) ELISA kit	0.078 ng/mL	FTH1
CSB-EL009030PI	Pig Ferritin heavy chain(FTH1) ELISA kit	1.175 ng/ml	FTH1
CSB-EL009159MO	Mouse Glutamate decarboxylase 1(GAD1) ELISA kit	1.56 pg/mL	GAD1
CSB-EL009226HU	Human Galactose-1-phosphate uridylyltransferase(GALT) ELISA kit	7.81 pg/mL	GALT
CSB-E13911h	Human glyceraldehyde-3-phosphate dehydrogenase (GAPDH/G3PDH) ELISA kit	7.81 pg/mL	GAPDH/G3PDH
CSB-EL009289HU	Human Glucosylceramidase(GBA) ELISA kit	0.078 ng/mL	GBA
CSB-EL009297HU	Human Interferon-induced guanylate-binding protein 1(GBP1) ELISA kit	6.25 pg/mL	GBP1
CSB-E09207h	Human Glucagon,GC ELISA Kit	4.3 pg/mL	GCG
CSB-E08139h	Human Glycated hemoglobin A1c,GHbA1c ELISA Kit	0.012 ng/mL	GHbA1c
CSB-E08140r	Rat Glycated hemoglobin A1c,GHbA1c ELISA Kit	0.019 ng/mL	GHbA1c
CSB-E08141m	Mouse Glycated hemoglobin A1c,GHbA1c ELISA Kit	0.39 µg/mL	GHbA1c
CSB-E08484h	Human Glucose dependent insulin releasing polypeptide,GIP ELISA Kit	7.14 ng/mL	GIP
CSB-E09463h	Human β-galactosidase,βGAL ELISA Kit	1.95 µIU/mL	GLB1
CSB-E08118m	Mouse glucagon-like peptide-1,GLP-1 ELISA Kit		GLP-1
CSB-E08119h	Human glucagon-like peptide-1,GLP-1 ELISA Kit	1.4 ng/mL	GLP-1
CSB-EQ027317PI	Pig glucagon like peptide 2(GLP2) ELISA kit	0.6 pg/mL	GLP2
CSB-E13622m	Mouse glucagon-like peptide-2,GLP-2 ELISA Kit	35.7 pg/mL	GLP-2
CSB-E08475h	Human Glycogen phosphorylase BB,GP-BB ELISA Kit	0.156 ng/mL	GP-BB
CSB-EL009717MO	Mouse Glucose-6-phosphate isomerase(GPI) ELISA kit	0.195 ng/mL	GPI

Code	Product Name	Sensitivity	Target
CSB-E17690m	Mouse Glucose Regulated Protein 78(GRP78)Elisa kit	0.11 ng/mL	GRP78
CSB-E09032h	Human glutathione S-transferases,GSTpi ELISA Kit	0.39 ng/mL	GSTP1
CSB-EL010127HU	Human Hydroxyacid oxidase 1(HAO1) ELISA kit	4.69 pg/mL	HAO1
CSB-EL010127MO	Mouse Hydroxyacid oxidase 1(HAO1) ELISA kit	1.56 pg/mL	HAO1
CSB-EL010315HU	Human Beta-hexosaminidase subunit alpha(HEXA) ELISA kit	3.9 pg/mL	HEXA
CSB-E15964h	Human Hydroxymethylglutaryl CoA Reductase (HMG-CoAR) ELISA kit	0.195 ng/mL	HMGCR
CSB-E09899h	Human Heparanase,HPA ELISA kit	0.039 ng/mL	HPSE
CSB-EL010901MO	Mouse Serine protease HTRA1(HTRA1) ELISA kit	19.5 pg/mL	HTRA1
CSB-E08538m	Mouse Amylin ELISA Kit	6.25 pg/mL	IAPP
CSB-E09966h	Human indoleamine 2,3-dioxygenase,IDO ELISA Kit	0.195 ng/mL	IDO1
CSB-E09471h	Human iduronate sulfatase,IDS ELISA Kit	7.81 pg/mL	IDS
CSB-E04581m	Mouse Insulin-like growth factor 1,IGF-1 ELISA Kit	0.151 ng/mL	IGF1
CSB-E06829p	Pig insulin-like growth factors-1,IGF-1 ELISA Kit	1.56 ng/mL	IGF1
CSB-E06994Rb	Rabbit Insulin-like growth factor 1,IGF-1 ELISA Kit	0.039 ng/mL	IGF1
CSB-E08893b	Bovine Insulin-like growth factor 1,IGF-1 ELISA Kit	0.94 ng/mL	IGF1
CSB-E09867Ch	Chicken Insulin-like growth factors 1,IGF-1 ELISA Kit	125 pg/mL	IGF1
CSB-E13753Sh	Sheep insulin-like growth factor 1,IGF-1 ELISA Kit	3.9 ng/mL	IGF1
CSB-EL011086DO	Dog insulin-like growth factor 1 (IGF1) ELISA kit	7.8 ng/mL	IGF1
CSB-E12122Fh	Fish Insulin-like growth factors 1,IGF-1 ELISA Kit	31.25 pg/mL	IGF-1
CSB-E12644De	Deer Insulin-like growth factors 1,IGF-1 ELISA Kit	0.5 ng/mL	IGF-1
CSB-E13401Mk	Monkey Insulin-like Growth Factor 1(IGF-1) ELISA KIT	15.6 ng/mL	IGF-1
CSB-E04583h	Human insulin-like growth factors 2,IGF-2 ELISA Kit	15.6 pg/mL	IGF2
CSB-EL011088FI	Fish Insulin-like growth factor II(IGF2) ELISA kit	31.25 pg/mL	IGF2
CSB-EL011091HU	Human Insulin-like growth factor 2 mRNA-binding protein 2(IGF2BP2) ELISA kit	31.25 pg/mL	IGF2BP2
CSB-E07353r	Rat Insulin-like growth factor binding protein 3,IGFBP-3 ELISA kit	2.7 ng/ml	IGFBP3
CSB-EL011749MO	Mouse Insulin-like peptide INSL5(INSL5) ELISA kit	0.78 pg/mL	INSL5
CSB-E13743h	Human inter-alpha-trypsin inhibitor heavy chain H1(ITIH1) ELISA Kit	3.9 ng/mL	ITIH1
CSB-EL011896HU	Human Inter-alpha-trypsin inhibitor heavy chain H3(ITIH3) ELISA kit	19.53 pg/mL	ITIH3
CSB-EL012157HU	Human Ketoheokinase(KHK) ELISA kit	4.68 mU/mL	KHK
CSB-EL012493HU	Human GTPase KRas(KRAS) ELISA kit	5.8 pg/mL	KRAS
CSB-E08217h	Human Endothelial lipase,EL ELISA Kit	0.156 ng/mL	LIPG
CSB-E08494r	Rat lipoprotein lipase,LPL ELISA Kit	1.95 pg/mL	LPL
CSB-E08495m	Mouse lipoprotein lipase,LPL ELISA Kit	0.156 ng/mL	LPL
CSB-E09459h	Human $\alpha$ -Glucosidase ELISA Kit	0.78 $\mu$ U/mL	MGAM
CSB-EL015082HU	Human NADH-ubiquinone oxidoreductase chain 6(MT-ND6) ELISA kit	5.86 pg/mL	MT-ND6
CSB-E08940h	Human visfatin ELISA Kit	0.156 ng/mL	NAMPT
CSB-EL015961HU	Human NADPH oxidase 4(NOX4) ELISA kit	2.34 pg/mL	NOX4
CSB-E14923h	Human NAD (P)H Dehydrogenase, Quinone 1 (NQO1)ELISA Kit	9.75 pg/mL	NQO1
CSB-EL016039MO	Mouse NAD(P)H dehydrogenase [quinone] 1 (NQO1) ELISA kit	7.81 pg/mL	NQO1
CSB-E12686h	Human 8-oxoguanine DNA glycosydase(hOGG1)ELISA kit	0.078 ng/mL	OGG1

Code	Product Name	Sensitivity	Target
CSB-EL017270HU	Human Ornithine carbamoyltransferase, mitochondrial(OTC) ELISA kit	0.312 mU/mL	OTC
CSB-E12950m	Mouse oxyntomodulin ELISA Kit	0.078 pg/mL	oxyntomodulin
CSB-E13251r	Rat prealbumin,PA ELISA Kit	375 ng/mL	PA
CSB-E13252c	Canine prealbumin,PA ELISA Kit	0.156 $\mu$ g/mL	PA
CSB-EL017396MO	Mouse Phenylalanine-4-hydroxylase(PAH) ELISA kit	5.8 pg/mL	PAH
CSB-E16196h	Human Xaa-Pro Dipeptidase/Prolidase(PEPD) ELISA Kit	23.4 mU/mL	PEPD
CSB-E08377h	Human Pyruvate Kinase,M2-PK ELISA Kit	0.225 U/mL	PKM2
CSB-E16930m	Mouse Pancreatic Lipase(PL)ELISA Kit	15.6 mU/mL	PL
CSB-E09484h	Human paraoxonase,PON ELISA Kit	7.81 mIU/mL	PON1
CSB-E15783h	Human Paraoxonase 3 (PON3) ELISA Kit	0.039 ng/mL	PON3
CSB-E08623h	Human Peroxisome Proliferator-activated receptor $\gamma$ ,PPAR- $\gamma$ ELISA Kit	19.5 pg/mL	PPARG
CSB-EL018425MO	Mouse Peroxisome proliferator-activated receptor gamma coactivator 1-alpha (PPARGC1A) ELISA kit	5.86 pg/mL	PPARGC1A
CSB-EL018824HU	Human Enteropeptidase(PRSS7) ELISA kit	0.078 ng/mL	PRSS7
CSB-E17836h	Human proteasome (prosome, macropain) subunit, beta type, 2 (PSMB2) ELISA kit	6.2 pg/mL	PSMB2
CSB-EL018969HU	Human Prostaglandin-H2 D-isomerase(PTGDS) ELISA kit	0.2 ng/mL	PTGDS
CSB-E10103h	Human cyclooxygenase-2,COX-2 ELISA Kit	0.31 ng/mL	PTGS2
CSB-E12910m	Mouse cyclooxygenase-2,COX-2 ELISA Kit	7.8 pg/mL	PTGS2
CSB-E13399r	Rat cyclooxygenase-2,COX-2 ELISA Kit	0.39 ng/mL	PTGS2
CSB-E09423h	Human Retinol binding protein 4,RBP-4 ELISA Kit	3.9 ng/mL	RBP4
CSB-E17923h	Human ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin) (RNASE2) ELISA kit	19.5 pg/mL	RNASE2
CSB-E17924m	Mouse ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin) (RNASE2) ELISA kit	0.78 ng/mL	RNASE2
CSB-E14214h	Human Corticosteroid Binding Globulin(CBG) ELISA Kit	20 pmol/mL	SERPINA6
CSB-E09501h	Human Thyroxine-Binding Globulin,TBG ELISA Kit	12.5 ng/mL	SERPINA7
CSB-EL021189HU	Human Serine/threonine-protein kinase Sgk1(SGK1) ELISA kit	5.86 pg/mL	SGK1
CSB-EL021200HU	Human N-sulphoglucosamine sulphohydrolase(SGSH) ELISA kit	7.81 pg/mL	SGSH
CSB-E13876h	Human Glucose transporter 4,GLUT4 ELISA Kit	15.6 pg/mL	SLC2A4
CSB-E13908r	Rat glucose transporter 4(GLUT4) ELISA Kit	0.039 ng/mL	SLC2A4
CSB-EL021769HU	Human Slit homolog 3 protein(SLIT3) ELISA kit	0.039 ng/mL	SLIT3
CSB-EL022578HU	Human Serine protease inhibitor Kazal-type 5(SPINK5) ELISA kit	15.6 pg/mL	SPINK5
CSB-E14053r	Rat Steroid 5-Alpha-Reductase 1 (SRD5A1) ELISA Kit	3.9 pg/mL	SRD5A1
CSB-EL022653HU	Human 3-oxo-5-alpha-steroid 4-dehydrogenase 1(SRD5A1) ELISA kit	0.039 ng/mL	SRD5A1
CSB-EL022654HU	Human 3-oxo-5-alpha-steroid 4-dehydrogenase 2(SRD5A2) ELISA kit	6 pg/mL	SRD5A2
CSB-EL022654RA	Rat 3-oxo-5-alpha-steroid 4-dehydrogenase 2(SRD5A2) ELISA kit	3 pg/mL	SRD5A2
CSB-EL024102HU	Human Triosephosphate isomerase(TPI1) ELISA kit	7 pg/mL	TPI1
CSB-E13627r	Rat Mast Cell Tryptase,MCT ELISA Kit	0.156 ng/mL	TPSAB1
CSB-EL025125HU	Human Tumor susceptibility gene 101 protein(TSG101) ELISA kit	5.86 pg/mL	TSG101
CSB-E10814h	Human thymidinephosphorylase,TP ELISA Kit	15.6 ng/mL	TYMP
CSB-EL025394HU	Human Tyrosinase(TYR) ELISA kit	3.9 pg/mL	TYR
CSB-EL025813HU	Human Transitional endoplasmic reticulum ATPase(VCP) ELISA kit	5.86 pg/mL	VCP
CSB-E13124h	Human Xanthine Oxidase(XO) ELISA Kit	0.039 ng/mL	XDH