

РЕАГЕНТЫ ДЛЯ АНАЛИЗА БЕЛКА



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Protein Analysis Detection and Assay

Protein Solubility Screening

71255 RoboPop™ Solubility Screening Kit Minimum Quantity: 20 kits

- The RoboPop Solubility Screening Kit is designed for protein expression-level and solubility screening in a 96-well format.
- The kit contains PopCulture® Reagent and Lysonase™ Bioprocessing Reagent for efficient extraction of recombinant proteins from *E. coli* directly from the culture medium without centrifugation. Lysonase significantly increases protein extraction efficiency and reduces sample viscosity facilitating downstream processing and robotic pipetting.
- The kit also incorporates an innovative filtration plate capable of retaining insoluble inclusion bodies while allowing soluble proteins to be collected for rapid quantitation and analysis. Insoluble proteins retained by the filtration plate are solubilized with 4% SDS, collected, and quantified separately.
- The Filter Plate is compatible with standard vacuum manifolds for manual processing and the entire protocol has been validated for robotic sample processing with the Genesis® Freedom™ Workstation from Tecan and the Packard-brand MultiPROBE® II liquid handling work station from PerkinElmer Life Sciences.
- Individual components of the kit may be purchased separately in bulk quantities. Please inquire.

Products	Min. Qty.
71255 RoboPop™ Solubility Screening Kit	20 kits
70724 FRETWorks™ S•Tag™ Assay Kit	5,000 rxn
QIA10 c-ErbB2/c-Neu Rapid Format ELISA Kit	Inquire
71414 ProteoPlex™ 16-Well Human Cytokine Array Kit	15 arrays

Homogenous, Fluorescent Protein Assay

70724 FRETWorks™ S•Tag™ Assay Kit Minimum Quantity: 5,000 rxn

- The FRETWorks S•Tag Assay is a FRET-based method that enables extremely sensitive detection of S•Tag fusion proteins in minutes with a homogeneous format.
- Interaction of the 15-amino acid S•Tag fusion peptide with purified S-protein reconstitutes RNase activity, which is measured using the FRET ArUAA substrate.
- Specificity of the substrate allows performance of this assay with crude extracts.
- Assay is compatible with BugBuster® and PopCulture lysates, making it an ideal reagent combination for rapid, automatable screening of protein expression.

Cancer Research

QIA10 c-ErbB2/c-Neu Rapid Format ELISA Kit Minimum Quantity: Inquire

(ErbB2 ELISA Kit; Erythroblastosis Virus ELISA Kit; HER-2 ELISA Kit; HER2 ELISA Kit; c-Neu ELISA Kit)

- Detects both c-ErbB2/c-Neu p185 and the extracellular domain p105 cleavage fragment.
- Sample type: Positive cell lines: A549, HT29, SK-BR-3, and SKOV-3, or breast, prostate, colon, or ovarian cancer.
- Specificity: Human. Assay range: 0–3 ng/ml. Assay time: 4 hours.
- 96 tests. 96-well plate. AVOID FREEZE/THAW CYCLES.
- Kit contents: Pre-coated 96-well plate, c-ErbB2/c-Neu lyophilized standard, cell resuspension buffer, antigen extraction agent, sample diluent, biotinylated detector antibody, detector diluent, streptavidin peroxidase conjugate, conjugate diluent, wash buffer, substrate, stop solution, adhesive plate sealers.

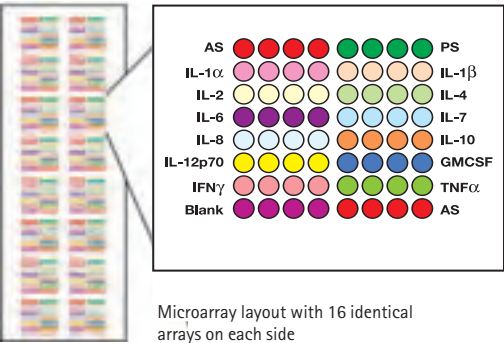
Cytokine Research

71414 ProteoPlex™ 16-Well Human Cytokine Array Kit Min. Quantity : 15 arrays

This novel ProteoPlex™ technology platform combines the power of parallel sample processing with the multiplex data generation capabilities of protein microarrays. The ProteoPlex 16-Well Human Cytokine Array Kit is designed for multiplex detection and measurement of 12 important human cytokines in parallel from up to 10 experimental samples. The combination of advanced surface chemistry, well-characterized capture agents, and a highly sensitive, fluorescence-based detection system provides a robust method for comparing relative cytokine abundance or cytokine quantification in serum samples or cell supernatants. The 12 analytes measured in the kit are pro- and anti-inflammatory cytokines important for the study of immune system regulation and diseases such as asthma and arthritis. Each well on the slide contains a microarray of spotted antibodies with four “spots” for each of the 12 cytokines plus additional spots for positive and negative controls. The replicate spots enable reliable, quantitative data acquisition from a single sample. A typical experimental design is to process 10 samples and a six-point standard curve. The simple protocol is familiar to researchers as it is similar to the protocols used for decades in single-analyte immunoassay systems. The 16-well slide format and SensiLight™ fluorescent detection system are compatible with a broad range of microarray scanners. The ProteoPlex Human 16-Well Cytokine Array Kit is a complete system that includes sample diluent, buffers, cytokine standards, detection antibodies, and SensiLight fluorescent detection reagents. Complimentary Slide Scanning and Analysis Services are also available.

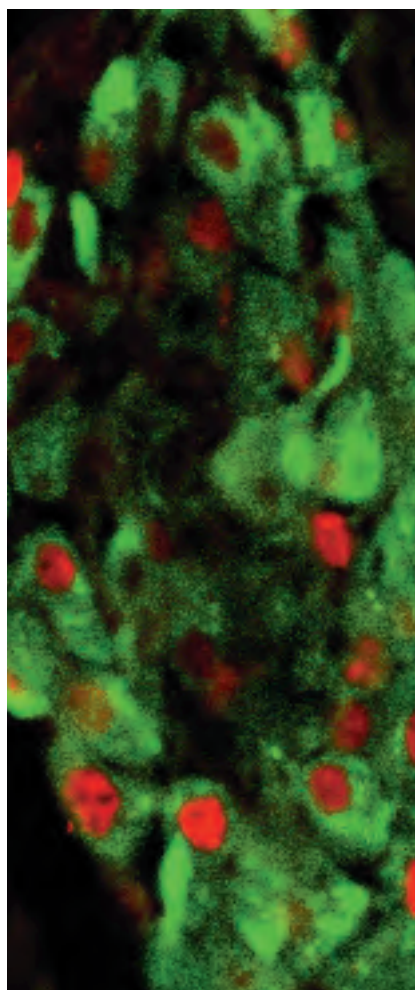
Cytokines: IL-1α, IL-1β, IL-2, IL-4, IL-6, IL-7, IL-8, IL-10, IL-12p70, GMCSF, IFNγ, TNFα

Format: Standard microarray slide format with 16 removable wells; 64 spots/well



Microarray layout with 16 identical arrays on each side

Product	Min. Qty.
440202 LY 294002	250 mg
688000 Y-27632	50
555550 Rho-Kinase Inhibitor	50 mg
529573 PP2	25 mg
529574 PP3	50 mg



Sample Volume: 50 µl for tissue culture supernatants, 25 µl for serum or plasma
 Detection Range: 5–2500 pg/ml
 Standard Curve Range: 15–800 pg/ml
 Reproducibility: < 20% well-to-well CV
 Recovery: 80–120% from serum, plasma, and tissue culture supernatants
 Assay Duration: 4 hours
 Fluorescent Detection System: SensiLight™ PBXL-3 (standard red laser 633 nm excitation; 660 nm emission)

Components:

1 ProteoPlex 16-Well Human Cytokine Array; 1 PBST Buffer Tablet; 1 ml 10X Sample Diluent; 1 tube Detection Antibody Cocktail 1, Lyophilized; 1.6 ml Detection Antibody Diluent; 1 tube Human Cytokine Standard Mix 1, Lyophilized; 0.3 ml 10X Standard Diluent, Serum-based; 1 tube SensiLight PBXL-3 Fluorophore, Lyophilized; 1.8 ml SensiLight PBXL-3 Diluent; 1.5 ml 200X Final Rinse; 1 Slide Dryer; 1 Slide Rinser; 1 Slide Mailer.

Phosphorylation/dephosphorylation

440202 LY 294002

Minimum Quantity: 250 mg

- Cell-permeable, potent, specific phosphatidylinositol 3-kinase (PI 3-kinase) inhibitor ($IC_{50} = 1.4 \mu M$) that acts on the ATP-binding site of the enzyme.
- Also inhibits nonhomologous DNA end-joining (NHEJ) in the 460 kDa phosphatidylinositol 3-like kinase DNA-PK ϵ , which is the catalytic subunit of DNA-activated protein kinase.
- Does not affect the activity of EGF receptor kinase, MAP kinase, PKC, PI 4-kinase, S6 kinase, and c-Src at concentrations as high as 50 mM.
- Blocks proliferation of cultured rabbit aortic smooth muscle cells without inducing apoptosis.
- Purity: $\geq 98\%$.
- Off-white solid. PROTECT FROM LIGHT. Soluble in DMSO or EtOH. CAS 154447-36-6, M.W. 307.4.

688000 Y-27632

Minimum Quantity: 50 mg

- Highly potent, cell-permeable and selective inhibitor of Rho-associated protein kinases ($K_i = 140 \text{ nM}$ for p160^{ROCK}).
- Inhibits ROCK-II with equal potency.
- Acts as a potent inhibitor of agonist-induced Ca^{2+} sensitization of myosin phosphorylation and smooth muscle contraction.
- Purity: $\geq 95\%$.
- Lyophilized solid. PROTECT FROM LIGHT. PACKAGED UNDER INERT GAS. Soluble in H_2O . CAS 146986-50-7, $C_{14}H_{21}N_3O \bullet 2HCl \bullet H_2O$, M.W. 338.3.
- Sold under license of U.S. Patent 4,997,834 and PCT Patent W098/06433A1 and under license from Mitsubishi Pharma Corporation.

555550 Rho-Kinase Inhibitor

Minimum Quantity: 50 mg

- Cell-permeable isoquinolinesulfonamide compound that acts as a highly specific, potent, and ATP-competitive inhibitor of G-protein Rho-associated kinase (ROCK; $K_i = 1.6 \text{ nM}$).
- Exhibits a much weaker affinity for other serine/threonine kinases ($K_i = 630 \text{ nM}$ for PKA, $9.27 \mu M$ for PKC, and $10.1 \mu M$ for MLCK).
- Shown to selectively block lysophosphatidic acid-induced, but not PDBu-induced, phosphorylation of myristoylated alanine-rich C kinase substrate MARCKS ($IC_{50} = 2.5 \mu M$) in NT-2 cells.
- Purity: $\geq 95\%$.
- Lyophilized solid. PROTECT FROM LIGHT. HYGROSCOPIC. PACKAGED UNDER INERT GAS. Soluble in H_2O . M.W. 392.3.

529573 PP2

Minimum Quantity: 25 mg

- Potent and selective inhibitor of the Src family of protein tyrosine kinases.
- Inhibits p56^{lck} ($IC_{50} = 4 \text{ nM}$), p59^{fyn} ($IC_{50} = 5 \text{ nM}$), and Hck ($IC_{50} = 5 \text{ nM}$).
- Does not significantly affect the activity of EGFR kinase ($IC_{50} = 480 \text{ nM}$), JAK2 ($IC_{50} > 50 \mu M$), or ZAP-70 ($IC_{50} > 100 \mu M$).
- Inhibits the activation of focal adhesion kinase and its phosphorylation at Tyr⁵⁷⁷.
- Potently inhibits anti-CD3-stimulated tyrosine phosphorylation of human T cells ($IC_{50} = 600 \text{ nM}$).
- Purity: $\geq 95\%$.
- Off-white solid. PACKAGED UNDER INERT GAS. Soluble in DMSO. M.W. 301.8.

529574 PP3

Minimum Quantity: 50 mg

- A negative control for the Src family protein tyrosine kinase inhibitor PP2 (Cat. No. 529573).
- Inhibits the activity of EGFR kinase ($IC_{50} = 2.7 \mu M$).
- Purity: $\geq 95\%$.
- Off-white solid. PACKAGED UNDER INERT GAS. Soluble in DMSO. CAS 5334-30-5, M.W. 211.2.



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