PURExtract™ Cell Protein Extraction Reagent

Whole intact proteins from any types of mammalian cells

Store at 4°C

Cat. No. PCP500

Sufficient reagent to extract protein from 5×10^{10} of cells

PURExtract™ Cell Protein Extraction Reagent : 500 ml

1 ml of extraction reagent is sufficient to extract protein from 1×10^{8} of cells .

Description

PURExtract™ Cell Protein Extraction Reagent is especially designed for extracting whole intact proteins from any types of mammalian cells. Without scraping, freeze-thaw cycles or sonication, intact proteins can be easily extracted in only two steps minimizing protein loss. The yield is higher than the one from RIPA Buffer, freeze-thaw cycles or sonication.

PURExtract™ Cell Protein Extraction Reagent is a ready-to-use, nondenaturing detergent. The extracted total protein is in nondenatured state and can be directly used in many downstream applications, including DNA-protein interaction, SDS-PAGE, gel mobility shift, immunoassays (Western blot, ELISA, RIA), protein assays (PKA, PKC, tyrosine kinase), reporter assays (luciferase, β-galactosidase, chloramphenicol acetyltransferase) or other affinity purification procedures. Furthermore, it is compatible with Coomassie Blue and silver staining.

PURExtract™ Cell Protein Extraction Reagent does not contain protease or phosphatase inhibitors. If desired, please add protease inhibitors, such as PURExtract™ Protease Inhibitor Cocktail (Product No. PRIC02) and PURExtract™ Phosphatase Inhibitor Cocktail (Product No. PHIC02) to the reagent to prevent proteolysis and maintain phosphorylation status of proteins.

Features

Ready-to-use, amine-free, dialyzable and nondenaturing detergent.
Without scraping, freeze-thaw cycles or sonication.
Intact proteins can be easily extracted in only two steps minimizing protein loss.
The yield is higher than the one from RIPA Buffer, freeze-thaw cycles or sonication.
Extracted protein is ready for direct use in many downstream applications.
Compatible with standard protein assays such as Bradford and BCA Protein Assay.

Applications

The extracted total protein is in nondenatured state and can be directly used in many downstream applications, including DNA-protein interaction, SDS-PAGE, gel mobility shift, immunoassays (Western blot, ELISA, RIA), protein assays (PKA, PKC, tyrosine kinase), reporter assays (luciferase, β-galactosidase, chloramphenicol acetyltransferase) or other affinity purification procedures.

Storage Conditions

PURExtract™ Cell Protein Extraction Reagent is shipped at ambient temperature and should be stored at 4°C upon receipt.

Additional materials required:

PURExtract™ Protease Inhibitor Cocktail (cat. no. PRIC02).
PURExtract™ Phosphatase Inhibitor Cocktail (cat. no. PHIC02).
4°C centrifuge, centrifuge tubes, micropipettes and tips, PBS.

Things to do / to know before starting:

(1) PURExtract™ Cell Protein Extraction Reagent doesn't contain protease inhibitors and/or phosphatase inhibitor. If desired, add protease inhibitors and/or phosphatase inhibitor to the PURExtract™ Cell Protein Extraction Reagent just before use.
(2) 1 ml of PURExtract™ Cell Protein Extraction Reagent is sufficient to extract protein from 1×10^{8} of cells.
(3) Keep all samples on ice during operation. Centrifuge temperature is 4°C for following procedures.

Procedure for Monolayer-cultured Mammalian Cells:

(1) Carefully remove (decant) culture medium from adherent cells.
(2) Wash cells once in wash buffer (e.g., PBS) and then discard the wash buffer (e.g., PBS).
(3) Add the appropriate amount of PURExtract™ Cell Protein Extraction Reagent to the plate or to each plate well. Shake gently for 10 minutes.
(4) Collect the lysate and transfer the lysate to a microcentrifuge tube. Centrifuge samples at 10,000 × g for 5 minutes to pellet the cell debris.
(5) Transfer the supernatant to a new tube for further analysis.

Procedure for Suspension-cultured Mammalian Cells:

(1) Collect the cells into an appropriate centrifuge tube. Centrifuge for 5 minutes at 450 × g. Decant and discard the supernatant.
(2) Wash cells once in wash buffer (e.g., PBS) and centrifuge for at 450 × g for 5 minutes. Decant and discard supernatant.
(3) Resuspend the cell pellet with appropriate amount of PURExtract™ Cell Protein Extraction Reagent.
(4) Keep on ice for 10 minutes, and vortex at 2 mininutes intervals.
(5) Centrifuge the samples at 10,000 × g for 5 minutes to pellet the cell debris.
(6) Transfer the supernatant to a new tube for further analysis.

Note: Lysate preservation requires low temperatures. For long term storage, it is recommended to store the lysate at –70 °C.

Related Products:

PRIC02	PURExtract™ Protease Inhibitor Cocktail (1 ml x 2)
PHIC02	PURExtract™ Phosphatase Inhibitor Cocktail (1 ml x 2)
PTP500	PURExtract™ Tissue Protein Extraction Reagent (500 ml)
PPE030	PURExtract™ Protein Extraction Reagent (30 preps)
PPF050	PURExtract™ Protein Fractionation Kit (50 preps)
PEC006	PURExtract™ Phosphoprotein Enrichment Kit (6 preps)
PER003	PURExtract™ Phosphoprotein Enrichment Kit (3 ml resin)
PPC006	PURExtract™ Phosphoprotein Purification Kit (6 preps)
PPR003	PURExtract™ Phosphoprotein Purification Kit (3 ml resin)
PHM020	PURExtract™ His-tagged Protein Purification Mini Kit (20 preps)
PHP005	PURExtract™ His-tagged Protein Purification Midi Kit (5 preps)

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Description
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PURExtract™ Cell Protein Extraction Reagent is a ready-to-use, nondenaturing detergent. The extracted total protein is in nondenatured state and can be directly used in many downstream applications, including DNA-protein interaction, SDS-PAGE, gel mobility shift, immunoassays (Western blot, ELISA, RIA), protein assays (PKA, PKC, tyrosine kinase), reporter assays (luciferase, β-galactosidase, chloramphenicol acetyltransferase) or other affinity purification procedures. Furthermore, it is compatible with Coomassie Blue and silver staining.
PURExtract™ Cell Protein Extraction Reagent does not contain protease or phosphatase inhibitors. If desired, please add protease inhibitors, such as PURExtract™ Protease Inhibitor Cocktail (Product No. PRIC02) and PURExtract™ Phosphatase Inhibitor Cocktail (Product No. PHIC02) to the reagent to prevent proteolysis and maintain phosphorylation status of proteins.
Features
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Without scraping, freeze-thaw cycles or sonication.
Intact proteins can be easily extracted in only two steps minimizing protein loss.
The yield is higher than the one from RIPA Buffer, freeze-thaw cycles or sonication.
Extracted protein is ready for direct use in many downstream applications.
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(5) Transfer the supernatant to a new tube for further analysis.
Procedure for Suspension-cultured Mammalian Cells:
(1) Collect the cells into an appropriate centrifuge tube. Centrifuge for 5 minutes at 450 × g. Decant and discard the supernatant.
(2) Wash cells once in wash buffer (e.g., PBS) and centrifuge for at 450 × g for 5 minutes. Decant and discard supernatant.
(3) Resuspend the cell pellet with appropriate amount of PURExtract™ Cell Protein Extraction Reagent.
(4) Keep on ice for 10 minutes, and vortex at 2 mininutes intervals.
(5) Centrifuge the samples at 10,000 × g for 5 minutes to pellet the cell debris.
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