

PURExtract™ Tissue Protein Extraction Reagent

Whole intact proteins from any types of mammalian tissues

Cat. No. PTP500

Sufficient reagent to extract protein from 25g of tissues

PURExtract™ Tissue Protein Extraction Reagent: 500 ml

20 ml of extraction reagent is sufficient to extract protein from 1g of tissues.

Store at
4°C**Description**

PURExtract™ Tissue Protein Extraction Reagent is especially designed for extracting whole intact proteins from any types of mammalian tissues. Intact proteins can be easily extracted in only two steps. Homogenizing tissue sample in 1:20 (w/v) of tissue to PURExtract™ Tissue Protein Extraction Reagent and then centrifuging to pellet tissue debris, minimizing protein loss. The yield is higher than the one from RIPA Buffer.

PURExtract™ Tissue 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, immunossays (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™ Tissue 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, dialyzable and nondenaturing detergent.

Maximize the efficiency of homogenization.

Intact proteins can be easily extracted in only two steps, minimizing protein loss.

The yield is higher than the one from RIPA Buffer.

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, immunossays (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™ Tissue 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).

Homogenizer, 4°C centrifuge, centrifuge tubes, micropipettes and tips.

Things to do / to know before starting:

- (1) PURExtract™ Tissue Protein Extraction Reagent doesn't contain protease inhibitors and/or phosphatase inhibitor. If desired, add protease inhibitors and/or phosphatase inhibitor to the PURExtract™ Tissue Protein Extraction Reagent just before use.
- (2) 20 ml of PURExtract™ Tissue Protein Extraction Reagent is sufficient to extract protein from 1g of tissues.
- (3) Keep all samples on ice during operation. Centrifuge temperature is 4°C for following procedures.

Protocol:

- (1) If desired, add protease inhibitors and/or phosphatase inhibitor to the PURExtract™ Tissue Protein Extraction Reagent just before use.
- (2) Weigh 1g of tissue samples.
- (3) Add 20ml of PURExtract™ Tissue Protein Extraction Reagent to 1g of tissue samples. Volume of PURExtract™ Tissue Protein Extraction Reagent can be adjusted according to the protein concentration.
- (4) Homogenizing sample with homogenizer until no more obvious particles. Please note that this homogenization procedure might be critical for the functional integrity of the target protein.
- (5) Centrifuge the samples at 10,000 × g for 5 minutes to pellet the tissue 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)
PCP500	PURExtract™ Cell 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)

For research use only.

Not intended for any animal or human therapeutic or diagnostic use.

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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)

For research use only.

Not intended for any animal or human therapeutic or diagnostic use.

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