Plant Nuclear Protein Extraction Kit (Proteomic experiments, MS, non-enzymatic method)

CD BioSciences
Plant Protein

Cat *PE00034*

Size *50T|100T*

Shelf Life

1 year

Application

This kit is suitable for the extraction of nuclear proteins from various plant cells and various solid plant tissues, such as leaves, roots, seeds and other plant tissues. The extraction process is simple and convenient and can be completed within 1 hour. The prepared nucleoproteins are not only of high purity and maintain natural activity, but also have no cross-contamination.

The kit contains a unique formula that can effectively solubilise plant nuclear components. The protease inhibitor mixture contained in this kit prevents the degradation of protein by protease, which ensures the extraction of high purity protein.

The protein extraction components of this kit do not contain descaler components that cannot be removed by dialysis, and do not contain SDS, Triton X-100, chaps and other components that may affect the mass spectrometry experiments, and the protein samples obtained at the end of the dialysis or desalination will not contain descaler, high salt concentration and other influences, which basically satisfy the downstream of any proteomics-related experimental research.

The protease inhibitor mixture of this product does not contain AEBSF, which can avoid the drift of mass spectrometry peaks caused by AEBSF, so the protein samples extracted by this product can be used for mass spectrometry (MS) detection and analysis, proteomics and other related research.

The proteins extracted in this kit are active proteins with natural protein conformation. The kit does not contain EDTA and is compatible with downstream applications such as metal chelation chromatography. The proteins extracted in this kit can also be used in downstream protein research experiments such as Western Blotting, protein electrophoresis, immunoprecipitation, ELISA, transcriptional activity analysis, Gel shift gel block assay, enzyme activity assay, and other downstream protein research experiments.

Description

Contains protein stabiliser, the extracted protein is stable.

Low background interference in UV detection of protein concentration.

Protease inhibitors inhibit protein degradation and the protease inhibitor formulation is optimised. The Protease Inhibitor Blend contains five separate protease inhibitors Aprotinin, Leupeptin, Pepstatin A, Bestatin, and E-64, each of which specifically inhibits one or more protease activities. The optimised composition of the mixture allows it to inhibit almost all essential protease activities, including serine proteases, cysteine proteases, aspartate proteases, alanyl-aminopeptidases and others.

Kit Composition

Plant nucleoprotein extract A 100mL/200mL
Phycobiliprotein extract B1 22.5mL/45mL
Plant nuclear protein extract B2 2.5mL/5mL
Protease inhibitor mixture 100μL/200μL

Storage

Protein extracts A and B1 are stored at 2 ~ 8℃; extract B2 and protease inhibitor are stored at -20℃.

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