

Plant Membrane Protein / Chloroplast Protein Extraction Kit

Cat PE00018

Size 50T|100T

Shelf Life

1 year

Application

This kit can be used to extract chloroplast proteins and plant membrane proteins from a variety of plant samples in a simple and rapid way, the extraction process is simple and convenient, and high quality chloroplast proteins and membrane proteins can be extracted within one hour.

The kit contains a unique formulation that can effectively solubilise cell membrane components, including cytoplasmic membranes and chloroplast membranes. This kit contains a mixture of protease inhibitors that prevents protein degradation by proteases, providing a guarantee of high purity protein extraction.

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

The protein samples extracted from this kit contain high concentration of salt and cannot be used directly in 2D electrophoresis.

Description

Reduce the time of protein extraction to 1 hour.

Contains protein stabiliser for stable extracted protein.

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 six individual protease inhibitors; each inhibitor specifically inhibits one or more protease activities. The optimised composition of the mixture allows it to inhibit almost all essential protease activities.

Kit Composition

Chloroplast extract A 100mL/200mL

Membrane protein extract B 25mL/50mL

Chloroplast protein extract C 10mL/20mL

Membrane protein lysis solution D 20mL/40mL

Protease inhibitor 100µL/200µL

Storage

Protein extracts and lysates are stored at 2 ~ 8°C; protease inhibitors are stored at -20°C.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY