

# Animal Membrane and Cytosol Protein Extraction Kit

This product offers a convenient and efficient method for isolating both cell membrane proteins and cytoplasmic proteins from animal cells or tissues. The extracted membrane protein fraction encompasses not only plasma membrane proteins but also those integral to the membranes of mitochondria, the endoplasmic reticulum, and the Golgi apparatus.

Cat. No.	Size
BF7475-10	10 Samples
BF7475-50	50 Samples

## Key Features

### Unparalleled Yield

Extracting approximately 0.4 to 0.6 mg of membrane protein from  $5 \times 10^6$  cells, the formulation consistently outperforms competing products by 30% to 50%

### Exceptional Purity

With a cross-contamination rate of less than 10%, this method ensures minimal cytosolic protein contamination in the extracted membrane protein fraction.

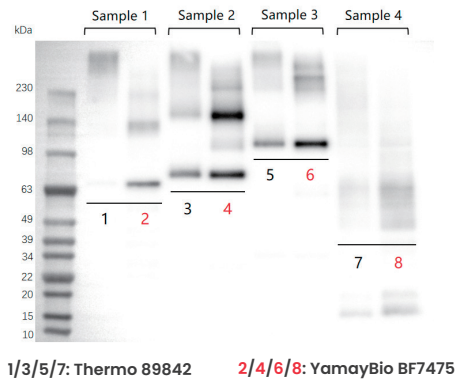
### Simplified Sample Preparation

Cell samples do not require homogenization, freeze-thaw cycles, or other complex pre-treatment procedures.

### High Compatibility

Membrane proteins can be extracted from animal cells and tissues. The extracted membrane proteins can be used in subsequent experiments such as BCA protein quantification, SDS-PAGE, Western Blot, and immunoprecipitation.

# Product Comparison

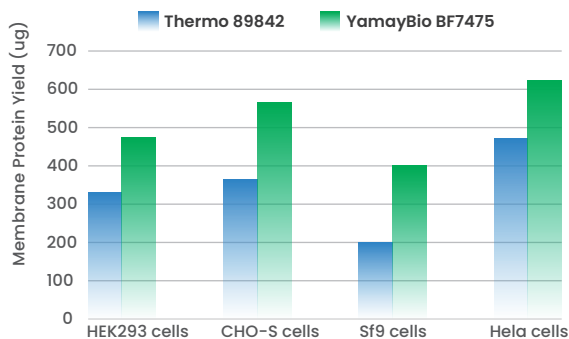
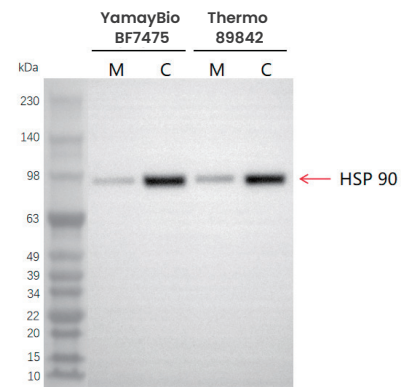


## Outperforms competing products with a higher yield of target protein.

Fig 1. Four different types of membrane proteins (with monomer molecular weights of 70.6 kDa, 78.8 kDa, 103.6 kDa, and 39.8 kDa respectively) were overexpressed in HEK293F cells. Equal amounts of cells ( $5 \times 10^6$ ) were taken and membrane proteins were extracted using two different kits. WB detection was performed using Anti-Strep tag II antibody. Lysates at 10  $\mu$ l per lane.

## Excellent membrane fractionation efficiency — with minimal cytosolic protein contamination in the membrane protein fraction.

Fig 2. The membrane protein (M) and cytosolic protein (C) components were separated from HEK293F cells using kits of Thermo 89842 and YamayBio BF7475. WB detection was performed with Anti-HSP 90 antibody. Lysates at 10  $\mu$ l per lane.



## Highly adaptable to different cell lines with a 30–50% higher yield.

Fig 3. Take  $5 \times 10^6$  cells of different types respectively, and use the kits of Thermo 89842 and YamayBio BF7475 to extract membrane proteins. The extracted membrane proteins were quantified by BCA protein quantification kit (e.g., Cat No. BH5484).

## Efficiently isolated membrane proteins from tissue samples.

Fig 4. Membrane proteins were extracted from 20 mg of mouse heart tissue using the YamayBio BF7475 protocol. The extracted membrane and cytosolic protein samples were then subjected to Western blot analysis using various target antibodies.

