

Detergent-free Exosomal Protein Extraction Kit for proteomics (LC/MS)

Cat. #: P201 (10 reactions), P201S (2 reactions)

Storage: Store at 4°C **Shelf Life:** 12 months

Product Description (This product is for research use only.)

This kit is for rapidly extracting detergent-free exosomal proteins from exosome in less than 5 minutes. The protein extraction buffers do not contain any detergent and EDTA.

The extracted exosomal protein can be used for proteomics (LC/MS), IP, ELISA, 2D-gel analysis, isoelectric focusing, SDS-PAGE, immunoblottings, and other applications.

Product Contents

Component	P201	P201S	Storage
Buffer A	500 µl	100 µl	4°C
Buffer B	500 µl	100 µl	4°C

Note

The use of protease inhibitors is not necessary prior to extraction. However if downstream application takes significant amounts of time or the protein extract will be stored for long period of time, addition of protease inhibitors to Buffer A is recommended. For determination of protein concentration, BCA kit is recommended. To study protein phosphorylation, **phosphatase inhibitors** (such as PhosStop from Roche) should be added to Buffer A prior to use.

Additional Materials Required

1 X PBS
Vortex
Table-Top Microcentrifuge
BCA Protein Assay Kit

Protocol:

1. Prior to protein extraction, pre-chill the buffers and the microcentrifuge tubes on ice.
2. Isolate exosome using 101Bio PureExo Exosome Isolation kits
3. Add appropriate amounts of Buffer A to the exosome suspension (Table 1), **vortex 10 – 20 seconds** to lyse the exosome. Add equal volume of Buffer B to the tube and mix well by vortexing briefly.

Table 1. Buffer Volume for Different Exosome Volumes*

Exosome volume (μl)	Buffer A (μl)	Buffer B (μl)
5	5	5
10	10	10
20	20	20
30	30	30
40	40	40
50	50	50

4. Transfer the exosome lysate to pre-chilled microcentrifuge tube(s) and centrifuge in a microcentrifuge for **10 minutes** at top speed (**14,000 ~ 16,000 rpm**).

5. Transfer the supernatant of flow through (detergent-free protein extract) to a pre-chilled clean microcentrifuge tube, and keep on ice. Measure the protein concentration. Use it directly for downstream assay or store the samples at -80°C for up to 3 months.

Related products:

Products	Cat. #	Feature
Real 3D Cell Culture Gel (better than Matri-gel)	P720	No work on ice and save.
40-min. Plasma Membrane Protein Extraction	P503	40 min. done ! Detergent-free
Lenti / Retro virus 10X Titer-Up Boosting Reagent	P906	
12-Min. Mouse Tail DNA Extraction Kit	T605	Unique !
1-Drop PCR Mix	W2599	Squeeze one drop and do PCR

PureExo Exosome Isolation Kits	P100 / P101	95% exosome purity
Exosome DNA Extraction Kit	P230	
Exosome Protein Extraction Kit, Detergent-free	P201	Unique !
Exosome from normal human	P140	We can isolate exosome from your samples.
Exosome from cancer patients	P141	