PMF 11 Fluorescent Prestained Protein Ladder

04 MAR 2026

Catalog Number	Size	Range
PMF11-0500	500 µl	11 to 300 kDa

Storage Conditions

Stable for up to 2 weeks at 25°C.

Stable for up to 3 months at 4°C.

Stable for up to 24 months at -20°C.

Description

The PMF 11 Fluorescent Prestained Protein Ladder is a combination of 11 pre-stained proteins with molecular weights from 11 kDa to 300 kDa. The 11 recombinant proteins are covalently coupled and fluorescently labeled with blue, red, and green stains for direct and fluorescent visualization, with 3 red bands at 27kDa, 80 kDa, and 300 kDa as reference bands. For fluorescent visualization, 10 stained proteins can be detected using the 440 nm – 460 nm excitation wavelength, and emission wavelengths at 700 nm – 740 nm. Primarily, the FMF 11 Fluorescent Prestained Protein Ladder keeps track of the size and separation of proteins during SDS-polyacrylamide gel electrophoresis, approximating the target protein size and validating the Western transfer efficiency on PVDF, nylon, or nitrocellulose membranes.

Kit Content(s)

PMF 11 Fluorescent Prestained Protein Ladder	500 µl x 1 vial

Storage Buffer

0.2~0.4 mg/ml of each band of protein is stored in a mixture of solution that contains: 20 mM Trisphosphate at pH 7.5, 2% SDS, 0.2 mM Dithiothreitol, 3.6 M Urea, and 15% (v/v) Glycerol.

Required materials but not provided

- Vertical Electrophoresis system
- Power supplies
- Vortex or equivalent
- Microcentrifuge

Reaction Setup

3µl or 5µl per loading for clear visualization during electrophoresis on 15-well or 10-well mini-gel, respectively. 2.5 µl per well for general Western transfer. After transferring proteins to a membrane, place the membrane in the imaging system, excite with 440 nm – 460 nm (blue LED), and collect emission at 700 nm – 740 nm.

ISO 9001 2015 CERTIFIED

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Important notes

The molecular weight of each protein (kDa) was measured against an unstained protein ladder in every electrophoresis condition. Additional data should be considered for a more accurate adjustment.