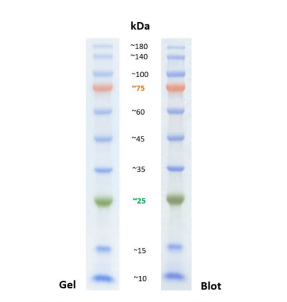


# Prestained Protein Marker (10-180 kDa)

Catalog Number: PL00001

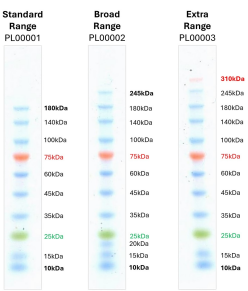
Product Information	The PL00001 Prestained Protein marker is a ready to use three-color protein standard with 10 prestained proteins covering a wide range of molecular weights from 10 to 180 kDa. The PL00001 Prestained Protein Marker is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes, (PVDF, nylon, or nitrocellulose) and for estimating the size of proteins. The PL00001 Prestained Protein marker is also suitable for fluorescence WB detection.
Product Information	Approximately 0.1~0.4 mg/ml of each protein in the buffer (20 mM Tris-phosphate (pH 7.5 at 25°C), 2 % SDS, 0.2 mM Dithiothreitol, 3.6 M Urea, and 15 % (v/v) Glycerol).
Package	250 µL ×2
Storage	Store product at 4°C for up to 12 weeks. For longer storage, aliquot and store at -20°C for up to 1 year.
Molecular Weight	~ 10, 15, 25, 35, 45, 60, 75, 100, 140, 180 kDa
Number of Markers	10
Size Range	10 to 180
Stain Type	3 colors: Blue, Red, Green
Detection Method	Colorimetric

Validation Data

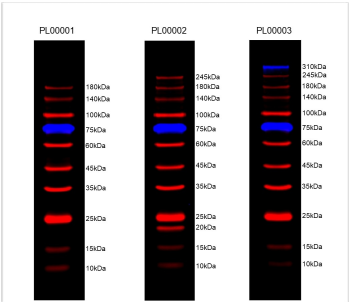


**SDS-PAGE band profile of Prestained Protein Ladder:** The prestained protein ladder was resolved in a 10-20% Tris-glycine gel (SDS-PAGE). The image shows the migration pattern in the gel and after transfer to a PVDF membrane.

Gel Type	Tris-Glycine				Tris-Acetate		Bio-Tris		
	Gel Concentration				Gel Concentration		Gel Concentration		
	4-20%	10-20%	8%	12%	3-8%	4-12%	10%	12%	
Running Buffer									
	Tris-Glycine				Tris-Acetate		MES		
	Apparent Molecular Sizes (kDa)				Apparent Molecular Sizes (kDa)		Apparent Molecular Sizes (kDa)		
% Length of Gel	30	20	10	5	30	20	10	5	30
30	180	140	100	75	180	140	100	75	180
20	140	100	75	60	140	100	75	60	140
10	100	75	60	45	100	75	60	45	100
5	75	60	45	35	75	60	45	35	75
30	180	140	100	75	180	140	100	75	180
20	140	100	75	60	140	100	75	60	140
10	100	75	60	45	100	75	60	45	100
5	75	60	45	35	75	60	45	35	75
30	180	140	100	75	180	140	100	75	180
20	140	100	75	60	140	100	75	60	140
10	100	75	60	45	100	75	60	45	100
5	75	60	45	35	75	60	45	35	75
30	180	140	100	75	180	140	100	75	180
20	140	100	75	60	140	100	75	60	140
10	100	75	60	45	100	75	60	45	100
5	75	60	45	35	75	60	45	35	75



The prestained protein ladders were resolved in an 8-16% Tris-glycine gel (SDS-PAGE). The image shows a comparison of the migration patterns on the gel for our standard (PL00001), broad (PL00002), and extra broad (PL00003) range ladders.



**Protein ladder tested with the Bio-Rad:** 2  $\mu$ L protein ladders were loaded in the 8%-18% Tris-glycine gel, then electrophoresed and transferred into the PVDF membrane. After blocking, this dual-channel image was taken directly by the Bio-Rad ChemiDoc MP Imaging System in the 550 nm (for 75 kDa and 310 kDa) and 680 nm (except 75 kDa and 310 kDa)... range.

For technical support and original validation data for this product please contact

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