Product Details

This product is a mixture of ten highly purified pre-stained proteins ranging from 8 kDa to 180 kDa. The 72 kDa band is orange, 8 kDa band is green, and other bands are blue. It is designed for observing protein separation during SDS-PAGE, verifying western transfer efficiency on membranes, and approximating the size of proteins.

Product Features

- Three Pre-Stained Color
- Neat, Bright and Well-distributed Bands
- More Accurate Molecular Weight Position

Storage Buffer

20 mM Tris-H3PO4 (pH 7.5), 2 mM EDTA, 1.5 % (W/V) SDS, 3 mM DTT, 0.1% (V/V) Proclin300, 15 % (V/V) Glycerol.

Shipping and Storage

The product is shipped with blue ice. Upon receipt, store it immediately at-20°C for long term storage.
This product is stable after storage at:

- -20°C for up to three years or 4°C for up to two months.

Procedure

1. Thaw the product at room temperature for a few minutes to dissolve precipitated solids. Do not boil!
2. Mix gently, but thoroughly, to ensure the solution is homogeneous.
3. Load the following volumes of the product on an SDS-PAGE:
   – 3-5 µL per well for mini gel
   – 5-10 µL per well for large gel

Use the same volumes for Western blot. The loading volumes listed above are recommended for gels with a thickness of 0.75-1.0 mm. The loading volume should be doubled for 1.5 mm thick gels.

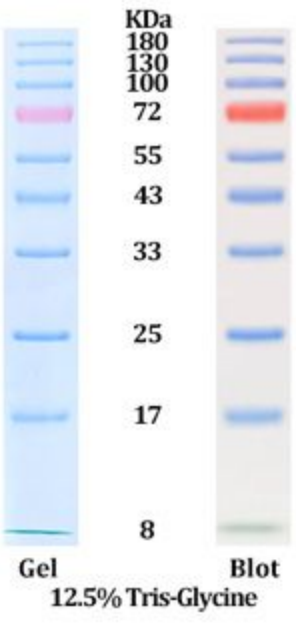
Product Specification

Number of Bands	10
Size Range	8 to 180 kDa
Stain Type	3 colors: Blue, Orange, Green
Molecular Weight	180, 130, 100, 72, 55, 43, 33, 25, 17, 8 kDa
Quantity	2 x 250 ul, 10 x 250 ul
System Type	SDS-PAGE, Western Blot

Notes

1. This product has been prepared in 1× SDS-PAGE loading buffer and can be used directly without boiling, diluting and adding reducing agent.
2. Longer transfer times or higher transfer voltages may be required for Western blot of large (>100 kDa) proteins.
3. Don't add SDS to transfer buffer. If SDS must be used, the concentration should not exceed 0.02-0.04%.
4. In low-percentage gels (< 10 %), the low-molecular weight proteins in the ladder may migrate with the dye front.
5. Pre-stained proteins can have different mobilities in various SDS-PAGE-buffer systems. However, they are suitable for approximate molecular weight determination when calibrated against unstained standards in the same system. See the table provided for migration patterns in different electrophoresis conditions.
6. For your safety and health, please wear a lab coat and disposable gloves.

SDS-PAGE



SDS-PAGE band profile of the Star Ribbon Pre-stained Protein Marker

Migration patterns of the Marker in different electrophoretic conditions

Gel type	Tris-Glycine						Bis-Tris							Tris-Acetate		Hepes-Tris
Gel concentration	8%	10%	12.5%	15%	B4-20%	W4-20%	G4-12%	G8-16%	G4-20%	G4-12%	G8-16%	G4-20%	G10%	6%	T3-8%	W4-20%
Running buffer	Tris-Glycine						MES			MOPS				Tris-Acetate		Hepes
	Apparent Molecular Weights, kDa															
% length of gel 10	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	170
20	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	125
30	100	100	100	100	100	100	95	95	95	95	95	95	95	95	100	95
40	70	72	75	79	70	70	65	65	65	65	65	65	65	65	65	65
50	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
60	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
70	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
80	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
90	17	17	17	17	17	17	17	17	17	17	17	17	17	17	33	17
100	8	8	8	8	8	8	8	8	8	8	8	8	8	8	25	8

The apparent molecular weight of each protein (kDa) has been determined by calibration of each protein against an unstained protein ladder in specific electrophoresis conditions. Migration patterns were determined using commercial precast mini gels.