

GoldBand 3-color High Range Protein Marker(10-245 kDa)

Product description

This product consists of 12 pre-stained proteins with a molecular weight range of 10-245 kDa, of which 72 kDa is an orange band, 25 kDa is a green band, 10, 15, 20, 35, 45, 60, 100, 140, 180, 245 kDa are blue bands, and the protein concentration of each band is about 0.1-0.4 mg/mL. This product can be used to dynamically observe the electrophoresis state and transfer effect of proteins. After SDS-PAGE electrophoresis, clear colored bands can be seen on PVDF membrane and NC membrane. This product is conveniently packaged and is a ready-to-use product. Please do not heat, dilute or add reducing agents! After the pre-stained protein is combined with the dye, the molecular weight will change in different concentration gels. This product is only for reference when used to determine the molecular weight of the target protein.

Specifications

Cat.No.	20352ES25 / 20352ES76 / 20352ES90
Size	25 µL / 2×250 µL / 10×250 µL

Components

Name	20352ES25	20352ES76	20352ES90
GoldBand 3-color High Range Protein Marker(10-245 kDa)	25 µL	2×250 µL	10×250 µL

Storage

Transport with ice packs. Store at -20°C, valid for 2 years; store at 4°C for frequent use, valid for three months; it is recommended to store in separate packages to avoid repeated freezing and thawing!

Storage Buffer Composition

62.5 mM Tris-H₃PO₄ (pH7.5), 2 mM EDTA, 2 % (W/V) SDS, 33 % (W/V) Glycerol, 5 mM DTT, 0.02 % (V/V) proclin300

Instructions

1. Melt this product at room temperature, then gently mix it to fully dissolve any sediment.
2. Put an appropriate amount of this product into the gel well. For mini-gels: 3-5 µL; for gels thicker than 1.5 mm or when you need to deepen the large molecule band, you can add a bit more: 5-10 µL.

Notes

1. Before use, the product must be brought to room temperature to ensure that any precipitates are fully dissolved. Incomplete denaturation of proteins at low temperatures may result in varying degrees of band migration during electrophoresis.

2. In Western blot experiments, large-molecular-weight proteins (>100 kDa) in the product may require longer transfer times or higher transfer voltages to complete the transfer.
3. This product contains SDS, and the proteins are denatured; therefore, it is not suitable as a molecular weight reference standard for natural protein electrophoresis.
4. Protein sizes may vary under different electrophoresis conditions, but they can be used for protein size determination after calibration with non-pre-stained protein standards in the same buffer system.
5. At low gel concentrations, low-molecular-weight proteins may migrate ahead of the dye front.
6. This product is packaged for convenience and is a ready-to-use product. Do not heat, dilute, or add reducing agents!
7. For your safety and health, please wear a lab coat and disposable gloves when operating.
8. This product is for scientific research purposes only!

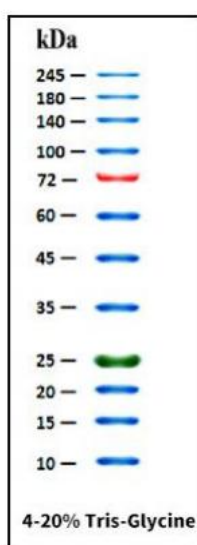


Figure 1 Results after 4-20% SDS-PAGE electrophoresis

Appendix: Molecular weight of each band of this product under different electrophoresis buffer conditions

Strip	color	Tris-Glycine	Bis-Tris	Hepes-Tris
1	Blue	245	240	235
2	Blue	180	173	175
3	Blue	140	135	136
4	Blue	100	94	98
5	Red	72	65	66
6	Blue	60	57	58
7	Blue	45	43	44
8	Blue	35	32	33
9	Green	25	23	24
10	Blue	20	19	20
11	Blue	15	14	15
12	Blue	10	10	10