



Ver. HB221103

GoldBand™ Plus 3-color Regular Range Protein Marker (8-180 kDa)

Product description

This product consists of 10 highly purified and prestained proteins ranging in molecular weight from 8 kDa to 180 kDa (8,17,25,33, 43,55,72,100,130,180kDa), among them, 72 kDa is orange band, 8 kDa is green band. The labeled apparent molecular weight was calibrated by the molecular weight Marker of standard non-prestained proteins. Using this product, the state of protein electrophoresis and the effect of membrane transfer can be dynamically observed. After SDS-PAGE electrophoresis, the color bands were transferred to PVDF membrane and NC membrane. This product is conveniently packaged and is a ready-to-use product, do not heat, dilute or add reducing agents! After the prestained protein is combined with the dye, the molecular weight will change in the gel of different concentrations. There are signs in the instructions.

This product is only for reference when judging the molecular weight of the target protein.

Components

Components No.	Name	20350ES72	20350ES76	20350ES90
20350	GoldBand™ Plus 3-color Regular Range Protein Marker (8-180 kDa)	250 μ L	2 \times 250 μ L	10 \times 250 μ L

Specifications

Product Type Specs	Protein Ladder
Size Range	8 kDa to 180 kDa
Number of Markers	10
Molecular Weight	8,17,25,33, 43,55,72,100,130,180 kDa
Stain Type	72 kDa is orange band, 8 kDa is green band, the rest are blue bands
Storage Buffer	62.5 mM Tris-H ₃ PO ₄ (pH 7.5), 2 mM EDTA, 2% (W/V) SDS, 33% (W/V) Glycerol, 5 mM DTT, 0.02% (V/V) proclin300
Ready to Load	ready-to-use product, do not heat, dilute or add reducing agents

Shipping and Storage

The product is shipped with dry ice and can be stored at -15°C~ -25°C for two years. For regular use, it can be placed at 4°C, valid for three months. It is recommended to store in aliquots to avoid repeated freezing and thawing!

Instruction

1. After the product is thawed at room temperature, mix gently to fully dissolve the precipitate.
2. Then take an appropriate amount of this product into the gel hole. mini-gel: 3-5 μ L; Western blotting: 1.5-2.5 μ L; when the thickness of the gel is greater than 1.5 mm, the loading volume can be appropriately increased.



Notes

1. The product needs to be returned to room temperature before use to fully dissolve the precipitate. Incomplete protein denaturation at low temperature may lead to different degrees of dispersion of electrophoresis bands.
2. In western blot experiments, large proteins (>100 kDa) in the product may require longer transfer times or higher transfer voltages to complete transfer.
3. This product contains SDS, and the protein has been denatured, so it should not be used as a molecular weight reference standard for natural protein molecular electrophoresis.
4. The product will have deviations in protein size under different electrophoresis conditions, but after they are calibrated by non-prestained protein standards in the same buffer system, they can be used for protein determination of similar molecular weights.
5. At low concentration of gel, low molecular weight protein will swim on the dye front.
6. This product is conveniently packaged and is a ready-to-use product, do not heat, dilute or add reducing agents!
7. Please wear the necessary PPE, such lab coat and gloves, to ensure your health and safety!
8. For research use only!

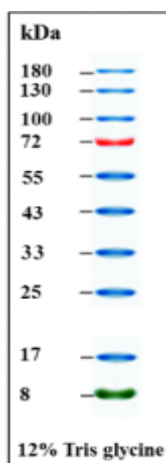


Figure1. 12% SDS-PAGE electrophoresis results

Attached table Under different electrophoresis buffer conditions, each band of this product indicates molecular weight

Bands	Color	Tris-Glycine	Bis-Tris
1	Blue	180	175
2	Blue	130	127
3	Blue	100	94
4	Red	72	65
5	Blue	55	54
6	Blue	43	42



7	Blue	33	31
8	Blue	25	24
9	Blue	17	17
10	Green	8	8

Table 1. The molecular weight of each band of GoldBand™ Plus 3-color Regular Range Protein Marker (8-180 kDa) under different electrophoresis buffer conditions