

GoldBand™ Plus 3-color High Range Protein Marker (25-300 kDa)

Product description

This product consists of 9 highly purified and prestained proteins ranging in molecular weight from 25 kDa to 300 kDa(25,45,72,100,130,160,200,250,300 kDa), among them, 72 kDa is orange band, 25 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, in different buffer systems, there is displacement. 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	20347ES76	20347ES90
20347	GoldBand™ Plus 3-color High Range Protein Marker (25-300 kDa)	2×250 μL	10×250 μL

Specifications

Product Type Specs	Protein Ladder
Size Range	25 kDa to 300 kDa
Number of Markers	9
Molecular Weight	25,45,72,100,130,160,200,250,300 kDa
Stain Type	72 kDa is orange band, 25 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. this color prestained protein Marker is usually used for loading 5-10 μL each time (5 μL of 5×1.5 mm gel hole is sufficient).

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. If the effect is not good, it is suggested to fine-tune the formula of membrane solution, reduce methanol dosage, and add a small amount of SDS (final concentration does not exceed 0.1%).
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!

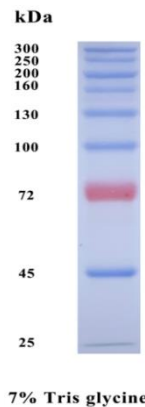


Figure 1. 7% SDS-PAGE electrophoresis results

Attached table Under different electrophoresis buffer conditions, the position each band of this product

Gel type	Tris-Glycine			Tris-Acetate		Bis-Tris	
	6%	7%	B4-20%	6%	T3-8%	T4-12%	T4-12%
Running buffer	Tris-Glycine			Tris-Acetate		MES	MOPS
Apparent Molecular Weights, kDa							
% length of gel	10		300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100
	20	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100
	30	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100
	40	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100
	50	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100
	60	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100
	70	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100
	80	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100
	90	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100
	100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100	300, 250, 200, 160, 130, 100

Table 1. The band position of GoldBand™ 3-color Low Range Protein Marker (2.7-40 kDa) under different electrophoresis buffer conditions