

## ColorBand Prestained Protein Marker High Range 25 kDa-300 kDa

Cat#:8011071/8011072

### [Product name]

ColorBand Prestained Protein Marker High Range 25 kDa-300 kDa

### [Model & Size]

Product Name	Cat No.	Size
ColorBand Prestained Protein Marker High Range 25 kDa-300 kDa	8011071	250 $\mu$ L
	8011072	250 $\mu$ L $\times$ 5

### [Product Description]

The product is a ready-to-use and prestained protein molecular weight standard solution in three colors, of which contains 9 highly purified and pre-stained recombinant proteins ranging from 25 kD to 300 kD (25 kDa, 45 kDa, 72 kDa, 100 kDa, 130 kDa, 160 kDa, 200 kDa, 250 kDa, 300 kDa). After SDS-PAGE or Western blot, 9 clear colored protein bands can be observed, of which the 72 kDa band is orange-red, 25 kDa is green, and the rest are all blue. The apparent molecular weight of the product is calibrated with Biorad 1610363, Thermo 26610 and 26614 non-pre-stained protein molecular weight standard. And the product is suitable as a protein molecular weight standard for SDS-PAGE and Western.

The product has been prepared in 1 $\times$ SDS-PAGE loading buffer and can be used directly. Please do not heat, dilute or add reducing agent.

The dosage of the product should be adjusted according to the size of the sample loading hole. When loading marker, it is only need to use 10  $\mu$ L marker (10  $\mu$ L for a 5 $\times$ 1.5mm gel hole is enough), and the clear protein bands can be observed after SDS-PAGE and Western blot.

### [Storage buffer]

62.5 mM Tris-H<sub>3</sub>PO<sub>4</sub>, pH 7.5, 2 mM EDTA, 2% (W/V) SDS, 33% (W/V) Glycerol, 0.02% (V/V) proclin300, 5 mM DTT.

### [Storage and transportation]

Store at -25 $^{\circ}$ C~-15 $^{\circ}$ C. Valid for 24 months. Avoid repeated freezing and thawing.

Transported on blue ice.

### [Instruction]

1. Thaw at room temperature. After the solution is completely dissolved, mix it gently and thoroughly. Do not heat.
2. It is only need to load 10  $\mu$ L marker during SDS-PAGE. It is recommended that when some laboratories load marker for the first time, they can determine the appropriate sample size through pre-experiments based on their own experimental conditions and experimental habits, so as to save costs and obtain better experimental images.
3. Unused markers are stored at -25 $^{\circ}$ C~-15 $^{\circ}$ C. They can also be repacked to avoid repeated freezing and thawing according to daily usage, and stored at 2 $^{\circ}$ C~8 $^{\circ}$ C for 2 months.

### [Precaution]

1. If it is a gel of low concentration, the low molecular weight proteins in the product might migrate faster than the dye.
2. It was necessary to extend the transfer time or increase the voltage if the sample is large molecular weight protein during Western blot. In addition, it is recommended not to add SDS to the

transfer solution. If it must be used in the experiment, it was recommended that the concentration of SDS should not exceed 0.02%~0.04%.

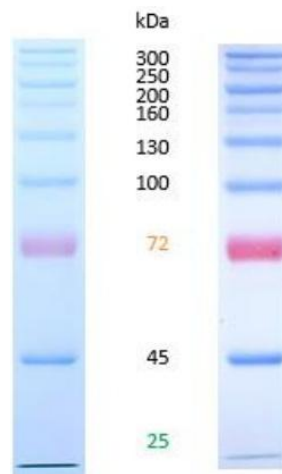
3. There are different apparent molecular weights of pre-stained proteins in different buffer systems. If non-pre-stained proteins are calibrated in advance in the buffer system, the protein molecular weight could be roughly determined.

4. This product is suitable for common membranes such as PVDF, nylon and cellulose acetate membranes.

5. The transfer effect is related to the transfer time and needs to be determined according to the size of the target band. If the transfer time is short, some of the large molecular weight bands may not be successfully transferred, which is a normal phenomenon.

6. The product contains a small amount of DTT. For your safety and health, please wear a lab coat and disposable gloves.

**[Product legend]**











**[Molecular weight guide]**

When using different protein gel types, concentration and electrophoresis buffer, the colored protein marker shows different mobilities and slightly different molecular weights, as shown in the table below.

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	300	300	300	300
	20	300	200	250	250	200	200
	30	250	160	200	200	160	160
	40	200	130	160	160	130	130
	50	160	100	130	130	100	100
	60	130	72	100	100	72	72
	70	100	45	70	70	45	45
	80	72	25	45	45	25	25
	90	45	25	25	25	25	25
	100	25	25	25	25	25	25

**[Description of Product Symbol]**

Product Symbol	Description	Product Symbol	Description
	Catalog Number		Batch Code
	Date of Manufacture		Manufacturer
	Keep away from light		Temperature limit
	Consult instructions for use		Use-by date

**[Company Information]**

**Manufacturer and after-sales service unit Name:** Shenzhen Dakewe Bio-engineering Co., Ltd.

**Website:** www.dakewe.com

**Telephone:** (86-755) 86235300

**Email:** RD@dakewe.com

**Address:** Room 702-703, Building No.1, Shenzhen Biomedicine Innovations Industrial Park, No.14 Jinhui Road, Kengzi Street, Pingshan District, Shenzhen, China

**After-sales service telephone:** (86-755) 86235300

**Zip Code:** 518122