

Color Prestained Protein Marker (8~250 kDa)

REF: EG23302-S/M

Storage Condition

Store at 4°C for 2 months, and at -20°C for 36 months.

Components

Component	EG23302S	EG23302M		
Color Prestained Protein Marker (8~250 kDa)	250 μΙ	5×250 μl		

Description

Color Prestained Protein Marker (8~250 kDa) is a tri-color pre-stained ready-to-use protein molecular weight standard that contains 11 known molecular weight pre-stained standard proteins with a molecular weight range of 8~250 kDa. After SDS-PAGE gel electrophoresis or Western blot transfer, clear 11 colored protein bands can be observed, with the 72 kDa band appearing orange-red, the 8 kDa band appearing green, and the remaining 9 bands appearing blue.

Notice

- 1. This product should not be subjected to repeated freeze-thaw cycles. Please aliquot and store at -20°C.
- 2. The separation efficiency of this product is dependent on the concentration of the PAGE gel. In low concentration gels (<8%), lower molecular weight proteins may migrate faster than the dye.
- 3. This product is suitable for common Western blot membranes such as PVDF, nylon, and cellulose acetate membranes. The transfer efficiency is related to the transfer time and should be adjusted according to the molecular weight of the target protein. For high molecular weight proteins in Western Blot, it may be necessary to extend the transfer time or increase the transfer voltage. If the transfer time is short, it may result in the incomplete transfer of some high molecular weight bands. Additionally, it is not recommended to add SDS to the transfer buffer. If SDS is necessary for the experiment, the concentration should not exceed 0.02~0.04%.
 - 4. This product contains a small amount of DTT. For your safety and health, please wear lab coats and disposable gloves when handling.

Protocol

- 1. This product is a ready-to-use liquid. After taking out of the refrigerator, allow it to completely thaw at room temperature and gently mix, then it can be directly loaded. There is no need for heating, dilution, or addition of reducing agents.
- 2. Depending on the size of the sample well, the typical loading volume ranges from 5 to 10 µl per well (for 5×1.5 mm wells, usually 5 µl is sufficient). Laboratories with the appropriate facilities can determine the optimal loading volume through preliminary experiments based on their specific conditions.

Molecular Weight Guide

The standard proteins in this product have been covalently linked to the dye. In different gel concentrations or electrophoresis buffer, the migration characteristics may change, and the actual molecular weight represented by each pre-stained band may also vary slightly. Please refer to the table below for specifics.

G	el type	pe Tris-Glycine					Bis-Tris							Tris-Acetate		Hepes- Tris	
	l con- tration	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%
	nning uffer	Tris-Glycine				MES		MOPS			Tris-Acetate		Hepes				
								Appare	nt Molecu	ılar Weig	hts, kDa						
%length of gel	10 20 30 40 50 60 70 80 90	— 250 — 180 — 130 — 100 — 70 — 55 — 43 — 33	250 180 -130 -100 -72 -55 -43 -33 -25 -17 -8	250 180 130 100 75 55 43 33 25 17 8	250 130 130 80 55 43 33 25 17	2501801301007055433325178	-250 -180 -130 -100 -70 -55 -43 -33 -25 -17 -8	250 180 130 95 65 55 43 33 25 17	250 — 130 — 95 — 65 — 55 — 43 — 33 — 25 — 17	250 — 180 — 130 — 95 — 65 — 55 — 43 — 33 — 25 — 17	— 250 — 180 — 130 — 95 — 65 — 55 — 43 — 33 — 25 — 17	250 180 130 95 65 55 43 33 25 17 8	250 180 130 95 65 55 43 33 25 17 8	250 180 130 95 65 55 43 33 25 17	25018013010065554333325		— 235 — 170 — 125 — 95 — 65 — 55 — 43 — 33 — 25 — 17