



**SMOBio**

Small Bio, Smart Tool

[www.smobio.com](http://www.smobio.com)

## Product Information

ExcelBand™ series

### 3-color Extra Range Protein Marker (10-310 kDa)

#### PM2800

Size: 250  $\mu$ l  $\times$  2  
5  $\mu$ l per well for 100 applications

## Storage

4°C  $\geq$  3 months

-20°C  $\geq$  24 months

## Loading Volume

- 3  $\mu$ l or 5  $\mu$ l per loading for clear visualization during electrophoresis on 15-well or 10-well mini-gel.
- 1.5~2.5  $\mu$ l per well for general Western Blotting transfer.
- Apply more for thicker (> 1.5 mm) or larger gel.

## Description

The PM2800 ExcelBand™ 3-color Extra Range Protein Marker is a ready-to-use three-color protein standard with 13 pre-stained proteins covering an extra range of molecular weights from 10 to 310 kDa in Tris-Glycine buffer (9 to 290 kDa in Bis-Tris (MOPS) buffer and 10 to 290 kDa in Bis-Tris (MES) buffer). Proteins are covalently coupled with a blue chromophore except for three reference bands (one **green** and two **red** bands at 25 kDa and 75, 310 kDa respectively) when separated on SDS-PAGE in Tris-Glycine buffer. The PM2800 ExcelBand™ 3-color Extra Range Protein Marker is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (nitrocellulose, PVDF, or nylon) and for approximating the size of proteins.


The marker is supplied in the gel loading buffer and is ready to use. **Do NOT heat, dilute, or add reducing agents before loading.**

## Contents

Approximately 0.1~0.4 mg/ml of each protein in the buffer (20 mM Tris-phosphate, pH 7.5 at 25°C), 2 % SDS, 0.2 mM Dithiothreitol, 3.6 M Urea, and 15 % (v/v) Glycerol).

## Guide for Molecular Weight Estimation (kDa)

Migration patterns of the PM2800 3-color Extra Range Protein Marker in different electrophoresis conditions are listed below:

Color	TRIS-GLYCINE	BIS-TRIS (MOPS)	BIS-TRIS (MES)	
Red	~310	~290	~290	
Blue	245	235	235	
Blue	180	170	170	
Blue	140	130	130	
Blue	100	93	93	
Red	75	70	72	
Blue	60	53	53	
Blue	45	41	42	
Blue	35	30	30	
Green	25	22	23	
Blue	20	18	18	
Blue	15	14	14	
Blue	10	9	10	

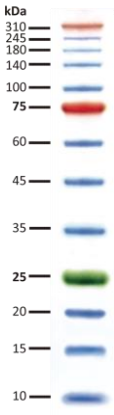
12 % SDS-PAGE



**SMOBio**  
Small Bio, Smart Tool

## ExcelBand 3-color Extra Range Protein Marker

### PM2800



12% SDS-PAGE



**Note.** The apparent molecular weight (kDa) of each protein has been determined by calibration against an unstained protein standard; supplemental data should be considered for more accurate adjustments in different electrophoresis conditions.



## **Quality Control**

Under suggested conditions, PM2800 3-color Extra Range Protein Marker resolves 13 major bands in 12% SDS-PAGE (Tris-Glycine buffer) and after Western blotting to nitrocellulose membrane.

Caution! Not intended for human or animal diagnostic or therapeutic uses.

## Related Products

- PM1500 ExcelBand All Blue Regular Range Protein Marker, 250  $\mu$ l  $\times$  2
- PM1600 ExcelBand All Blue Regular Range Plus Protein Marker, 250  $\mu$ l  $\times$  2
- PM1700 ExcelBand All Blue Broad Range Protein Marker, 250  $\mu$ l  $\times$  2
- PM2400 ExcelBand Pink Blue Protein Marker, 250  $\mu$ l  $\times$  2
- PM2500 ExcelBand 3-color Regular Range Protein Marker, 250  $\mu$ l  $\times$  2
- PM2510 ExcelBand Enhanced 3-color Regular Range Protein Marker, 250  $\mu$ l  $\times$  2
- PM2600 ExcelBand 3-color High Range Protein Marker, 250  $\mu$ l  $\times$  2
- PM2610 ExcelBand Enhanced 3-color High Range Protein Marker, 250  $\mu$ l  $\times$  2
- PM2700 ExcelBand 3-color Broad Range Protein Marker, 250  $\mu$ l  $\times$  2
- PM5000 ExcelBand 3-color Pre-stained Protein Ladder, Regular Range, 250  $\mu$ l  $\times$  2
- PM5100 ExcelBand 3-color Pre-stained Protein Ladder, High Range, 250  $\mu$ l  $\times$  2
- PM5200 ExcelBand 3-color Pre-stained Protein Ladder, Broad Range, 250  $\mu$ l  $\times$  2
- PS1000 FluoroStain Protein Fluorescent Staining Dye (Red, 1,000X), 1 ml

- PS1001 FluoroStain Protein Fluorescent Staining Dye (Red, 1,000X), 1 ml x 5
- DM1160 FluoroBand 50 bp Fluorescen DNA Ladder, 500  $\mu$ l
- DM2160 FluoroBand 100 bp Fluorescent DNA Ladder, 500  $\mu$ l
- DM2360 FluoroBand 100 bp+3K Fluorescent DNA Ladder, 500  $\mu$ l
- DM3160 FluoroBand 1 KB (0.25-10 kb) Fluorescent DNA Ladder, 500  $\mu$ l
- DM3260 FluoroBand 1 KB Plus (0.1-10 kb) Fluorescent DNA Ladder, 500  $\mu$ l
- DM4160 FluoroBand XL 25 kb Fluorescent DNA Ladder, Broad Range (up to 25 kb), 500  $\mu$ l
- DL5000 FluoroDye DNA Fluorescent Loading Dye (Green, 6X), 1ml
- DS1000 ExcelStain DNA Fluorescent Staining Dye (Green, 10,000X), 500  $\mu$ l
- DS1001 ExcelStain DNA Fluorescent Staining Dye (Green, 10,000X), 500  $\mu$ l x 5
- VE0100 B-BOX™ Blue Light LED epi-illuminator, AC 100-240V, 50/60Hz