



## Prestained Protein Ladder V

*For research use only*

- Broad range** : 10-180 kDa  
**Ready to use** : supplied buffer for direct gel loading  
**Protein Loading Dye** : included (2 ml, 5X Protein Loading Dye)  
**Easy identification** : sharp bands with 28 and 75 KDa reference bands (green/red dye)  
**Storage** : -20°C for 24 months, 4°C for 3 months  
**Optional Requirements** : DTT (2M, 500 µl)  
**Applications** : monitor protein migration/sample in SDS-PAGE, monitor protein transfer onto membranes during Western Blotting, sizing of proteins on SDS-PAGE and Western blots

### Introduction

Prestained Protein Ladder V is a three-color protein standard with 10 pre-stained proteins covering a wide range of molecular weights for 10 to 180 kDa. Proteins are covalently coupled with a blue chromophore except for two reference bands (one green and one red band) when separated on SDS-PAGE. The Ladder is designed for monitoring protein separated during SDS-PAGE, verification of Western transfer efficiency on membranes (PVDF, nylon or nitrocellulose) and for approximate sizing of proteins. The ladder is supplied in a gel loading buffer and is ready to use, without requiring heating, diluting, or a reducing agent prior to loading.

### Quality Control

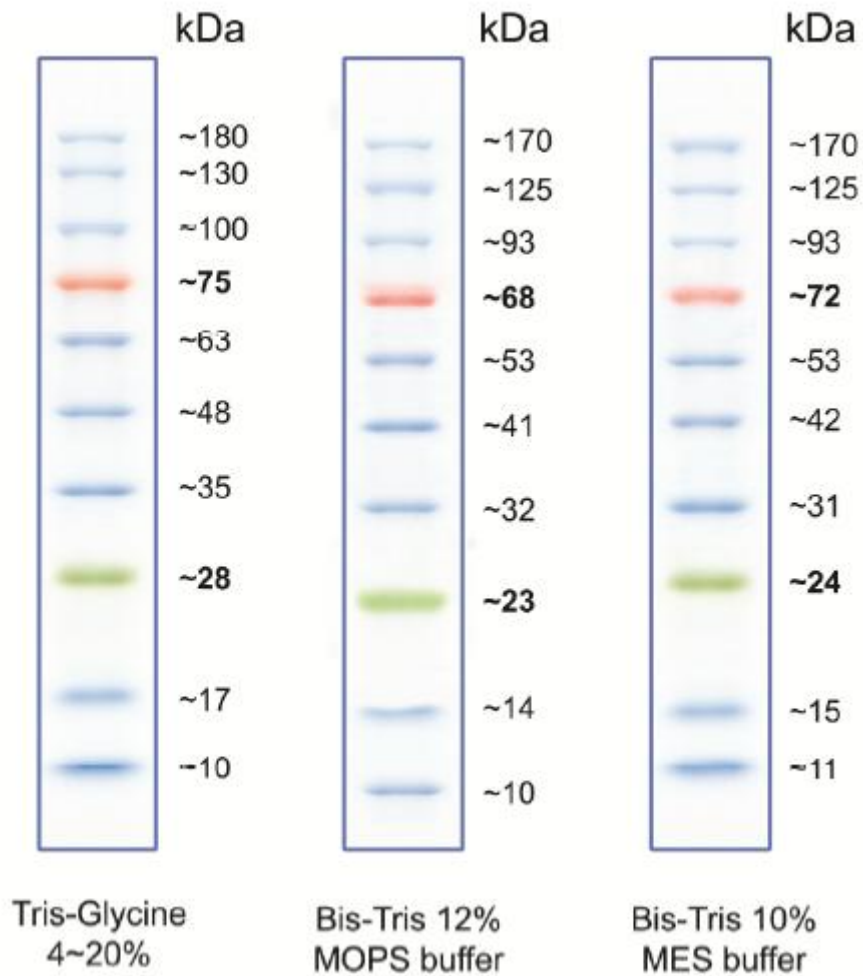
5 µl of Prestained Protein Ladder V resolves 10 bands in 4-20% SDS-PAGE (Tris-glycine buffer) and after Western blotting to PVDF membrane.

### Contents

Approximately 0.2~0.4 mg/ml of each protein in buffer {20 mM Trisphosphate, pH 7.5 at 25°C, 2% SDS, 1 mM 2-Mercaptoethanol, 3.6 M Urea and 15% (v/v) glycerol}.

## Guide for Molecular Weight Estimation (kDa)

Migration patterns in different electrophoresis conditions are listed below:



Note: The apparent molecular weight of each protein (kDa) has been determined by calibration against an unstained protein ladder in each electrophoresis condition. Supplementary data should be considered for more accurate adjustment. All products are for research use only and are not intended for human or animal diagnostic or therapeutic uses.