

# R3Charge Pre-stained Protein Ladder II, 10-245 kDa

## Pack Sizes & Catalogue Numbers

- i. **DS1282110** – 250 µL, 50 Reactions
- ii. **DS1282116** – 6 × 250 µL, 300 Reactions

## Product Description

The **R3Charge Pre-stained Protein Ladder II** contains a mixture of **12 prestained proteins ranging from 10 kDa to 245 kDa** (11, 17, 20, 25, 35, 48, 63, 75, 100, 135, 180, 245 kDa).

- The **75 kDa band** appears **orange**,
- The **25 kDa band** appears **green**,
- All other bands appear **blue**.

This marker is designed for:

- Monitoring protein separation during **SDS-PAGE electrophoresis**,
- Checking **Western blot transfer efficiency** (PVDF, nylon, or NC membranes),
- Estimating the **molecular weight** of proteins.

The ladder is pre-mixed in loading buffer, ready to use. **No heating, dilution, or reducing agent is required before loading.**

## Buffer Composition

- 62.5 mM Tris-phosphate buffer (pH 7.5, 25 °C)
- 2% (w/v) SDS
- 5 mM EDTA
- 0.02% (v/v) ProClin300
- 33% (v/v) Glycerol

## Usage Instructions

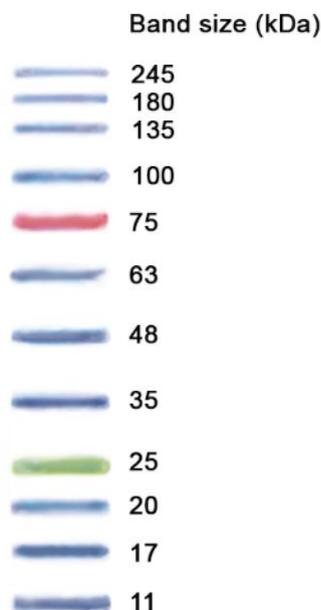
1. Thaw at room temperature and mix thoroughly before use. **Do not boil.**
2. Load **5  $\mu$ L per lane** along with experimental samples for SDS-PAGE.
  - For standard  $5 \times 1.5$  mm wells, 5  $\mu$ L is sufficient to visualize clear bands during and after electrophoresis or after transfer.
3. Adjust loading volume (5–10  $\mu$ L) according to gel well size and experimental needs.

## Storage Conditions

- Store at **-20 °C** for up to **1-year**.
- Store at **4 °C** for up to **3-month** (avoid repeated freeze-thaw cycles).

## ⚠ Notes & Precautions

- Do not run gels excessively long, as bands may diffuse.
- For frequent use, aliquot after thawing and store at 4 °C for short-term use.
- Always wear a lab coat and disposable gloves when handling.



*For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.*

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