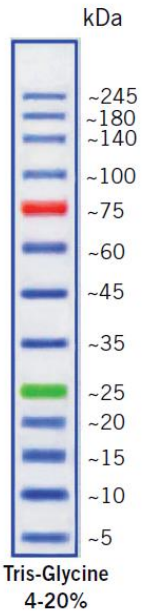
ExactMark 1kp DNA Ladder (250-10,000 bp), Ready to Use



Cat. No.: BIO-5150-25ul
BIO-5150-250ul
BIO-5150-500ul

Concentration: -

Supplied with: -

Storage: 25°C – 2 weeks
4°C – 3 months
-20°C – long term storage

DESCRIPTION

ExactPro Broad Range (5-245kDa) Prestained Protein Ladder contains 13 prestained recombinant proteins that cover a wide range of molecular weights from 5kDa – 245kDa. An orange reference band of ~75kDa and a green reference band of ~25kDa provides easy monitoring of protein separation.

The ladder is ready-to-use. No further dilution, addition of a reducing agent or heating is required.

Storage Buffer

20mM Tris-H_3PO_4 (pH 7.5 @ 25°C)
15% (v/v) Glycerol
2% (w/v) SDS
10mM DTT
3.6mM Urea

Quality Control

5µl of ExactPro Broad Range (5-245kDa) Prestained Protein Ladder provide 13 bands of equal intensities in 4 – 20% gradient SDS-PAGE (Tris-Glycine buffer) and after electrotransfer onto PVDF membrane.

Applications

Used in SDS-PAGE and Western blots for approximation of protein sizes, and to locate a protein of interest for excision from an unstained preparative gel.

Recommendations

- Thaw ladder at room temperature to dissolve precipitated solids.
  Do not boil.
- Mix solution gently to ensure that it is homogeneous.
- Load ladder into SDS-PAGE gel or Western blot using these volumes (based on gel thickness of 0.75 – 1.0mm).

    - 3µl per loading on 15-well mini-gel
    - 5µl per loading on 10-well mini-gel
    - 1.5 – 2.5µl per loading for general Western transferring

- Double the loading volume for thicker or larger gel.

Remarks

- Each lot of ExactPro Broad Range (5-245kDa) Prestained Protein Ladder is calibrated with unstained protein ladder and ExactPro Broad Range (5-245kDa) Prestained Protein Ladder calculated apparent molecular weights are as the picture.
- Prestained proteins can have different mobilities in various SDS-PAGE-buffer system. However, they are suitable for approximate molecular weight determination when calibrated against unstained standards in the same system.
- In 8% or 10% gels, low molecular weight proteins may migrate with the dye front.
- Suitable for use in Western blotting with all common membranes.
- Longer transfer times or higher transfer voltages may be required for Western blotting of proteins larger than 100kDa.