ExactPro Regular Range (9-180 kDa) Prestained Protein Ladder

Cat. No.: BIO-5151-25ul
BIO-5151-500ul

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.

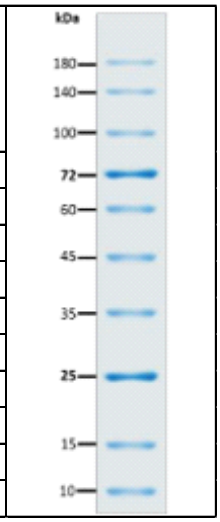
Quality Control: 5µl of ExactPro Regular Range (9-180 kDa) Prestained Protein Ladder provides 10 blue bands in 4 – 20% gradient SDS-PAGE (Tris-Glycine buffer) and after electro transfer onto nitrocellulose membrane. Two enhanced bands of 25 kDa and 72 kDa observed.

Storage Buffer: 20mM Tris-H_3PO_4 (pH 7.5 @ 25°C)
15% (v/v) Glycerol
2% (w/v) SDS
0.2mM DTT
3.6mM Urea

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

1.0 DESCRIPTION

ExactPro Regular Range (9-180 kDa) Prestained Protein Ladder contains 10 prestained recombinant proteins that cover a range of molecular weights from 9 kDa – 180 kDa. Proteins are covalently coupled with a blue chromophore, with 2 enhanced reference bands, 25 kDa and 75 kDA, when separated on SDS-PAGE (Tris-Glycine). Prestained proteins may have different mobilities in various SDS-PAGE buffer system.

Band	Color	Tris-Glycine Migration Pattern and Approximate MWs (kDa)	Bis-Tris (MOPS) Migration Pattern and Approximate MWs (kDa)	Bis-Tris (MES) Migration Pattern and Approximate MWs (kDa)	
1	Blue	180	170	170	
2	Blue	140	130	130	
3	Blue	100	93	93	
4	**Blue**	**72**	**68**	**70**	
5	Blue	60	53	53	
6	Blue	45	41	42	
7	Blue	35	30	30	
8	**Blue**	**25**	**22**	**23**	
9	Blue	15	14	14	
10	Blue	10	9	9	

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

2.0 PROTOCOL

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

- Double the loading volume for thicker or larger gel.