



**Catalog No.:** G02102-10

**Product Name:** AccuRuler Prestained Protein Ladder *Plus*

**Size:** 10x250µl

**Description:** The **AccuRuler Prestained Protein Ladder Plus** contains 12 prestained proteins, covering a wide range of molecular weights from 10 to 245kDa. It is designed for monitoring protein separated during polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes and for sizing of proteins. The ladder is supplied in protein gel loading buffer and is ready-to-use. No need to heat, dilute, or add reducing agent before loading.

**Contents:** About 0.1~0.4 mg/ml of each protein in 20 mM Trisphosphate (pH 7.5 at 25°C), 2% SDS, 1 mM reducing reagent, 3.6 M Urea, and stabilizer.

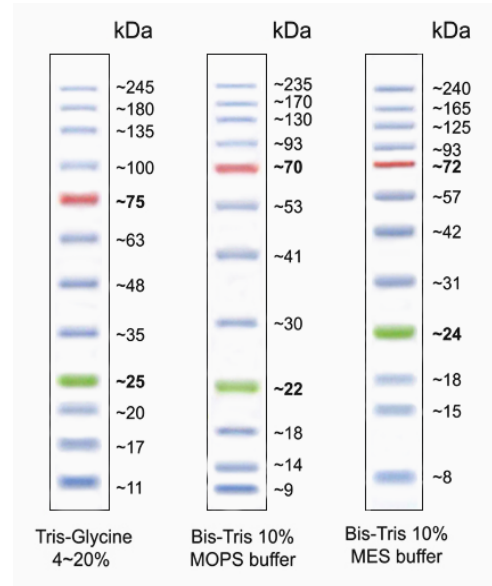
**Usage:** For each application, 3 - 5µl is needed, depending on the size of the wells.

### Quality Control:

Tested on polyacrylamide gel electrophoresis and Western Blotting.

**Storage:** Store at -20°C.

Related Products	Cat. No.
• ECL Western Detection Kit	G075
• Western Protein Maker	WM1000
• Prestained Protein Ladder	G10180



**Note:** The apparent molecular weight of each protein (kDa) has been estimated by calibration against an unstained protein ladder on polyacrylamide gel electrophoresis under each condition.

*For laboratory research use only!*



<b>Catalog No.:</b>	G075-5
<b>Product Name:</b>	<b>Pico Ultra ECL Western Blotting Detection Kit</b>
<b>Size:</b>	<b>5 Kits</b> (5X 100ml Soln. A and 5X 100 Soln. B)
<b>Description:</b>	The <b>Pico Ultra ECL Western Blotting Detection Kit</b> contains 100ml of Solution A and 100 ml of Solution B. Mix Solutions A and B in a 1:1 ratio right before the application. The mixture is then ready for detection of any immobilized specific antigens in chemiluminescent Western blots through horseradish peroxidase (HRP) labeled antibodies. The kit is designed for a high quality and long lasting glow.
<b>Quality Assurance:</b>	The reagents in this kit have been tested to optimize the range and sensitivity of detection using various horseradish peroxidase (HRP) labeled antibodies in Western blot assays.
<b>Special Precautions:</b>	Contains hydrogen peroxide. Use only in a well ventilated area.
<b>Applications:</b>	Immunoblotting (Western)
<b>Storage:</b>	Stable for 1 year at 4°C from date of shipment.

#### Protocol:

1. After all the Western Blotting steps and ready for detection, place the membrane with the protein side up in a clean container, keeping the membrane under moist with the wash buffer.
2. Mix Luminol solution (**Solution A**) and Peroxide Solution (**Solution B**) in a 1:1 ratio. For a mini-sized membrane (~7 x 8.5 cm), 5-6 ml of solution will be sufficient.
3. Pour the detection solution mixed above directly to the membrane and evenly covering the membrane.
4. After one minute, remove the membrane from the chemiluminescent substrate solution and drain off excessive solution.
5. Place the membrane in a plastic sheet protector or in plastic wrap to prevent the membrane from drying.
6. Image the membrane with a digital imager or by exposing to the X-ray film.

#### Troubleshooting:

<i>Problem:</i>	White bands with a black background
<i>Cause/Solution:</i>	Too much HRP used. Dilute HRP-conjugate further.
<i>Problem:</i>	Weak or no signal or signal fades quickly
<i>Cause/Solution:</i>	Inefficient protein transferred insufficient antibodies, or Low HRP activity.
<i>Problem:</i>	High background
<i>Cause/Solution:</i>	Too much HRP used, inappropriate blocking reagent, or overexposed.
<i>Problem:</i>	Nonspecific bands
<i>Cause/Solution:</i>	Too much HRP-conjugate; poor antibody specificity.

***For Research Use Only!***