

Prestained Protein Marker (10~250kDa)

Catalogue No.: K135

Size: 250 μ L/250 μ L*2

Storage:

The kit should be stored at -20°C for 24months.

Introductions:

The prestained protein marker consists of 9 proteins with different molecular weights. All proteins are expressed without a His tag, ensuring no non-specific binding with His antibodies. The molecular weight range is 10 kDa to 250 kDa (10 kDa, 15 kDa, 25 kDa, 35 kDa, 55 kDa, 70 kDa, 90 kDa, 130 kDa, 250 kDa). Among these, the 25 kDa and 70 kDa band is orange-red, the 10 kDa band is green, and the remaining bands are blue. This marker can be used to monitor protein separation during electrophoresis, assess transfer efficiency in Western blot experiments, and determine the molecular weight of target proteins.

| 胶 | Tris-Glycine | Bis-Tris |
|-------|--------------|-------------|
| 电泳缓冲液 | Tris-Glycine | MOPS |
| | kDa 250~ | kDa ~185 |
| | 130~ | ~115 |
| | 90~ | ~80 |
| | 70~ | ~65 |
| | 55~ | ~50 |
| | 35~ | ~30 |
| | 25~ | ~25 |
| | 15~ | ~15 |
| | 10~ | ~10 |

Product features:

- Accurate molecular weight indication: No pre-stained protein calibration, the band size is accurate;
- Clear bands: The band colors are clear and bright, with excellent separation effect;
- Easy to observe in multiple colors: Three-color bands, facilitating observation and subsequent film cutting.

Usage Instructions:

Take 5 μL of this product (for a 5×1.5 mm gel well, 5 μL is sufficient) and load it simultaneously with the experimental samples for polyacrylamide gel electrophoresis. It is recommended that laboratories with the capability determine the optimal loading volume through preliminary experiments based on their own experimental conditions and practices when using this product for the first time. This can help reduce costs while achieving better experimental images. When using Coomassie Brilliant Blue staining, it is recommended to reduce the loading volume to 1/5–1/3 of the required amount.

Notes:

1. The product is ready for direct use. Do not heat or boil it.
2. For long-term storage, this product can be aliquoted and stored at -20°C to avoid repeated freeze-thaw cycles and contamination. For short-term use, it is recommended to change clean pipette tips each time.
3. The migration rate of pre-stained proteins may vary in different gel buffer systems.
4. In low-concentration gels, low-molecular-weight bands may migrate at a similar speed to the bromophenol blue dye indicator band and cannot be separated. It is recommended to first calibrate with a non-pre-stained protein molecular weight standard in this buffer system to roughly determine the molecular weight of the protein.
5. Generally, electrophoresis can be stopped when the bromophenol blue indicator band has basically reached the bottom of the gel or when the pre-stained molecular weight standard has separated and spread out.
6. Since the sensitivity of silver staining is more than 10 times higher than that of Coomassie Brilliant Blue staining, when using this product for silver staining experiments, the amount of product used should be appropriately reduced.
7. This product is for scientific research use by professionals only. It must not be used for clinical diagnosis or treatment, nor for food or medicine purposes. It must not be stored in ordinary residences.
8. For your safety and health, please wear a lab coat and disposable gloves when operating.