M5 Prestained Protein Ladder (15-150 kDa)使用说明书

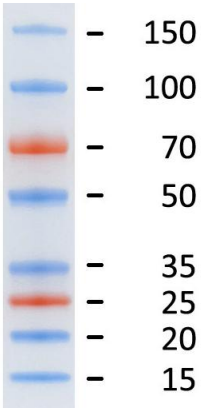
产品名称	单位	货号
M5 Prestained Protein Ladder	250μl	MF028-01
M5 Prestained Protein Ladder	2×250μl	MF028-02

【储存条件】
-20˚C 恒温长期保存，4˚C 保存 6 个月，建议分装保存，避免反复冻融。

【产品简介】
本产品由跨度从 15~150 kDa 的 8 种纯化的天然蛋白混合而成，各条带浓度约为 0.2~0.4 mg/ml。其中 25 kDa 和 70 kDa 条带为红色预染条带，方便判断各个条带的准确位置。本产品适合作为 SDS-PAGE 电泳时，变性蛋白样品的分子量参照，并可实时观察蛋白样品的电泳分离状况，也可用于检测 Western blot 的转膜效率。由于共价结合的染料会影响蛋白质分子的电泳迁移率，本产品适于粗略地估计目的蛋白样品的分子量。

【使用方法】
1. 将本产品于室温融化后，轻柔混匀，使沉淀充分溶解；
2. 按下表用量分装后-20˚C 保存；
3. 按下表吸取适量加入 SDS-聚丙烯酰胺胶的上样孔中，与待测样品一起电泳和转膜；
4. 电泳结束后，通过考马斯亮蓝染液染色观察条带。

凝胶规格	mini-gel
SDS-PAGE	3~5 μl



4-15% PAGE，kDa

【注意事项】
1. 使用时应该将从冰箱中取出的产品恢复至室温后使用，否则可能由于低温下蛋白变性不彻底导致电泳条带出现不同程度的弥散；
2. 使用前先将产品恢复至室温后混匀，使沉淀充分溶解，否则可能导致电泳条带出现不同程度的弥散或拖带；
3. 本产品含有 SDS，蛋白已变性，不宜作为天然蛋白分子电泳时的分子量参照标准。

注意：每次吸取请务必换干净的枪头，以免引入蛋白酶污染导致降解！

【备注】
本产品仅供科研使用。在确认产品质量出现问题时，本公司承诺为客户免费更换等量的质量合格产品。

M5 Prestained Protein Ladder (15-150 kDa) User Manual

Product Name	Units	Cat.#
M5 Prestained Protein Ladder	250μl	MF028-01
M5 Prestained Protein Ladder	2×250μl	MF028 -02

Storage: Upon receipt store at -20°C. Product is shipped with an ice pack.

Storage Buffer: 62.5mM Tris•H_3PO4 (pH 7.5 at 25°C), 1mM EDTA, 2% (w/v) SDS, 10mM DTT, 1mM NaN3 and 33% (v/v) glycerol.

Introduction:
The M5 Prestained Protein Ladder is a prestained mixture of ten recombinant proteins ranging from 15kDa to 150kDa. Two different chromophores are bound to the proteins, producing a brightly colored ladder (see website for product images). The protein ladder is conveniently packaged and ready to use with no heating, diluting or additional reducing agent necessary.

Important Product Information
- Do not boil the protein ladder.
- The molecular weights of the proteins have a lot-to-lot variation of approximately 3%.
- In low-percentage gels (< 10%), the low-molecular weight proteins in the ladder may migrate with the dye front.
- The large proteins (> 100K) in the ladder may require longer transfer times or higher transfer voltages for Western blotting.
- The mobility of prestained proteins can vary in different SDS-PAGE buffer systems; however, they are suitable for approximate molecular weight determination when calibrated against unstained standards in the same system.

Procedure for Use in Polyacrylamide Gel Electrophoresis:

1. Thaw the ladder at room temperature. Do not boil protein ladder.

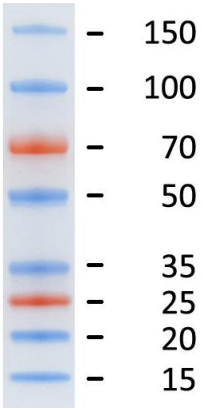
2. Mix gently and thoroughly to ensure that the solution is homogeneous.

3. Load an appropriate volume of the ladder onto the gel.

- Mini-gel: 5μL per well (0.75-1.0mm thick) or 10μL per well (1.5mm thick)

- Large gel: 10μL per well (0.75-1.0mm thick) or 20μL per well (1.5mm thick)

4. Return the unused protein ladder to -20°C for up to one year or 4°C for up to three months.



kDa, 4-15% PAGE