

BenchMark™ His-tagged Protein Standard

Cat. no. LC5606

Size 125 µL

Store at -30°C to -10°C

Pub. Part no. LC5606.pps

MAN0001519

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Description

The BenchMark™ His-tagged Protein Standard allows easy visualization of protein molecular weight ranges of His-tagged fusion proteins after electrophoresis or western blotting. Each standard protein contains a 6X His-tag enabling the detection of standard proteins with the InVision™ His-tag In-gel Stain (Cat. no. LC6030) or with Anti-His(C-term) Antibody (Cat. no. R930-25) using western detection. The BenchMark™ His-tagged Protein Standard is ideal for use as a positive control for InVision™ His-tag In-gel Stain. The standard can also be detected with Coomassie staining.

The important features of the standard are listed below:

- Consists of 10 distinct protein bands in the range of 10–160 kDa
- Visualized with InVision™ His-tag In-gel Stain (Cat. no. LC6030) or Coomassie stains on SDS-PAGE gels
- Visualized also with Anti-His(C-term) Antibody (Cat. no. R930-25) using chromogenic or chemiluminescent western detection systems
- Suitable for use with NuPAGE® Novex Gels or Tris-Glycine Gels
- Supplied in a ready-to-use format

Specifications

Contents: 125 µL of BenchMark™ His-tagged Protein Standard

Storage: 0.45 M Tris-HCl, pH 8.5; 50 mM DTT; 2% SDS; 12% glycerol;

Buffer: 0.0025% Coomassie G-250

Storage: Store at -30°C to -10°C. Avoid repeated freezing and thawing.

Stability: 6 months at -20°C

Directions

The BenchMark™ His-tagged Protein Standard is supplied in a ready-to-use format. There is no need to heat or add reducing agent.

1. Thaw the ladder at room temperature. Vortex gently to ensure the solution is homogenous.
2. Load the ladder onto a SDS gel using the loading volumes listed below to obtain the best results:

Gel	Electrophoresis	Blotting
Mini-Gel, 1.0-mm	5 μ L	2.5–5 μ L*
Mini-Gel, 1.5-mm	7 μ L	5–10 μ L*

*The amount of standard will depend on the sensitivity of your western detection system and exposure time.

3. After electrophoresis, stain the standard proteins using the InVision™ His-tag In-gel Stain (for staining protocol, refer to the manual supplied with the stain). After staining, the standard proteins are visualized using a UV transilluminator or a visible light laser-based scanner. The protein bands appear fluorescent as shown on the next page (lane A). The standard can also be stained with SimplyBlue™ SafeStain (lane C, next page).

For western blotting with the Life Technologies Anti-His(C-Term) Antibody, use 1:5000 dilution and perform detection using the WesternBreeze® Chemiluminescent Kit-Anti-Mouse (lane B, page 3).

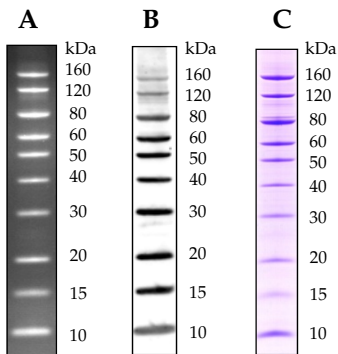
Note: The standard cannot be visualized using Anti-HisG Antibodies available from Life Technologies.

Product Qualification

The Certificate of Analysis (CofA) provides detailed quality control information for each product. The CofA is available on our website at www.lifetechnologies.com/support, and is searchable by product lot number, which is printed on each box.

Example

The apparent molecular weights of the protein bands in BenchMark™ His-tagged Protein Standard are shown below. Five microliters of BenchMark™ His-tagged Protein Standard was separated on a NuPAGE® Novex 4–12% Bis-Tris Gel with MES buffer. The standards were visualized after staining with InVision™ His-tag In-gel Stain as described in the manual supplied with the stain (lane A), after western detection with 1:5000 dilution of Anti-His(C-Term) Antibody using the WesternBreeze® Chemiluminescent Kit-Anti-Mouse (lane B), or with SimplyBlue™ SafeStain (lane C).



Note: If you do not observe any standard protein bands after staining with InVision™ His-tag In-gel Stain, refer to the troubleshooting section of the manual supplied with the stain. For troubleshooting western detection with the antibody, refer to Anti-His(C-Term) Antibody manual.

Accessory Products

The following products are available separately. For more information, visit www.lifetechnologies.com/support or contact Technical Support.

Product	Quantity	Cat. no.
InVision™ His-tag In-gel Stain	500 mL	LC6030
Anti-His(C-term) Antibody	50 µL	R930-25
WesternBreeze® Chromogenic Kit, Anti-Mouse	1 kit	WB7103
WesternBreeze® Chemiluminescent Kit, Anti-Mouse	1 kit	WB7104
SimplyBlue™ SafeStain	1 L	LC6060

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