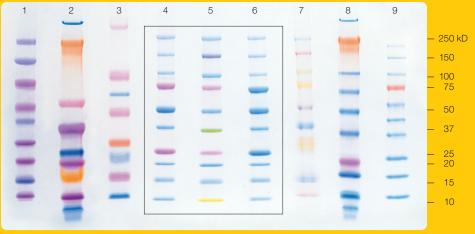
Comparison of Multicolor Prestained Protein Standards

Precision Plus Protein^{™*} prestained all blue, dual color, and Kaleidoscope[™] standards offer matching migration patterns and nonshifting bands for every color.

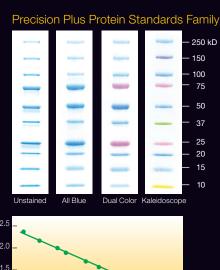


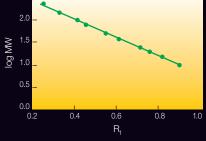
Prestained standards run on a Bio-Rad Criterion™ 4–20% precast gel in Tris/glycine/SDS running buffer at 200 V for 60 min. Molecular weights shown are for Precision Plus Protein standard bands.

- 1 Cambrex ProSieve color protein markers
- 2 Invitrogen MultiMark multicolored standard
- 3 Sigma ColorBurst electrophoresis markers
- 4 Bio-Rad Precision Plus Protein dual color standards
- 5 Bio-Rad Precision Plus Protein Kaleidoscope standards

- 6 Bio-Rad Precision Plus Protein all blue standards
- 7 Amersham Biosciences full-range Rainbow protein molecular weight markers
- **8** Invitrogen SeeBlue Plus2 prestained protein standards
- 9 Fermentas prestained protein ladder







Exceptional linearity of Precision Plus Protein standards. The standard curve was generated by plotting the log molecular weight (MW) versus the migration distance (R_i) of each protein standard band through an SDS-PAGE gel. Precision Plus Protein Kaleidoscope standards showed $r^2 = 0.996$, demonstrating a strong linear relationship between the proteins' log molecular weight and migration distance on a gel. All Precision Plus Protein prestained and unstained standards generate standard curves with r^2 values > 0.99.

Outstanding Standards for Western Blotting

Precision Plus Protein[™] unstained standards consistently produce sharp, clean signals with sensitive detection systems.





Western blot detection of Green Fluorescent Protein (GFP) and unstained Precision Plus Protein standards using the Immun-Star™ horseradish peroxidase (HRP) chemiluminescent detection kit. Maximum sensitivity achievable with Immun-Star HRP is 1–3 pg. A gel run with 0.5 µl of standards (lane 1) and a dilution series of E. coli lysate containing overexpressed GFP (lanes 2–8) was transferred to a PVDF membrane. The blot was probed with a primary antibody specific for GFP, then incubated with StrepTactin-HRP and a secondary antibody conjugated to HRP. After incubation in the Immun-Star HRP detection solution for 2 min, the blot was exposed to film for 10 sec.



Western blot detection of GFP and unstained Precision Plus Protein standards using the Immun-Blot® alkaline phosphatase (AP) colorimetric detection kit. Maximum sensitivity achievable with Immun-Blot AP is 100 pg. A gel run with 4 µl of standards (lane 1) and a dilution series of E. coli lysate containing overexpressed GFP (lanes 2–10) was transferred to a PVDF membrane. The blot was probed with a primary antibody specific for GFP, then incubated with StrepTactin-AP and a secondary antibody conjugated to AP. The blot was developed using the Immun-Blot AP kit.

Ordering Information

Catalog #	Description
161-0375	Precision Plus Protein Kaleidoscope Standards, 50 applications
161-0374	Precision Plus Protein Dual Color Standards, 50 applications
161-0373	Precision Plus Protein All Blue Standards, 50 applications
161-0363	Precision Plus Protein Unstained Standards, 100 applications
161-0380	Precision Protein [™] StrepTactin-HRP Conjugate, 150 applications
161-0382	Precision Protein StrepTactin-AP Conjugate, 150 applications

For more information on Precision Plus Protein standards and blotting, request bulletin 2847.

StrepTactin is a trademark of Institut für Bioanalytik GmbH. Strep-tag technology for western blot detection is covered by US patent 5,506,121 and by UK patent 2,272,698. StrepTactin is covered by German patent application P 19641876.3. Bio-Rad Laboratories, Inc. is licensed by Institut für Bioanalytik GmbH to sell these products for research use only.

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