

## His-Tag Protein ELISA Kit

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CATALOG #  
**AAA11403**

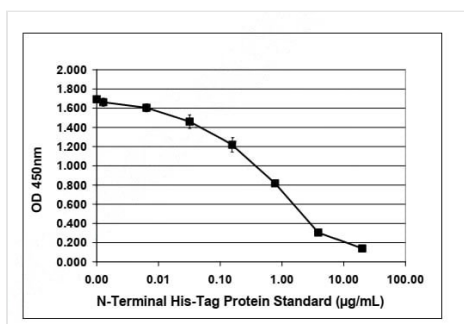
### PRODUCT SYNONYMS

His-Tag Protein; His-Tag Protein ELISA Kit; His-Tag Protein elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                  |
|-------------------------|------------------------------------------------------------------|
| Assay Type              | Competitive                                                      |
| Preparation and Storage | Store kit components at 4 degree C until their expiration dates. |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for His-Tag Protein elisa kit

**Background:** A polyhistidine-tag, or His-tag, is an amino acid sequence in proteins that consists of at least five histidine (His) residues, usually inserted at the N- or C-terminus of the protein. Often used for affinity purification of recombinant proteins in E. coli and other prokaryotic or eukaryotic expression systems, the 6xHis-tag motif provides a powerful purification tool while minimizing any effect on the protein's functionality and bioactivity. These attributes make it a popular tag for recombinant protein production and isolation. However, the accurate quantitation of His-tagged protein in unpurified samples remains difficult. His-Tag Protein ELISA Kit is a competitive enzyme immunoassay developed for rapid detection and quantitation of His-tagged protein samples (C- or N-terminal). The quantity of His-tag in a protein sample is determined by comparing its absorbance with that of a known His-tag protein standard curve (provided in the kit). The kit has detection sensitivity range of 4 ug/mL to 1 ng/mL (10 kDa His-tag protein standard), or 400 nM - 100 pM 6xHis-tag residues. Each kit provides sufficient reagents to perform up to 96 assays including standard curve and His-tag samples. The His-Tag Protein ELISA Kit is intended for research use only, and not for diagnostic applications.

**Principle of the Assay:** The unknown His-tag samples or recombinant His-tag protein standards are first added to a polyhistidine coated plate. After a brief incubation, an anti-6xHis monoclonal antibody is added, followed by an HRP conjugated secondary antibody. The His-tag protein content in unknown samples is determined by comparing with a standard curve that is prepared from predetermined His-tag protein standards.

#### Product Categories/Family for His-Tag Protein elisa kit

Cell Signaling and Protein Biology; Epitope Tags; His-Tag Protein ELISA

## References

1. Porath, J., Carlsson, J., Olsson, I. & Belfrage, G. (1975) Nature 258:598-599.
  2. Hemdan, E. S. & Porath, J. (1985) J. Chromatogr. 323:255-264.
  3. Hemdan, E. S. & Porath, J. (1985) J. Chromatogr. 323:265-272.
  4. Sulkowski, E. (1985) Trends Biotechnol. 3:1-7.
- Dong, Y. et al. (2013). HMGB1 Protein Does Not Mediate the Inflammatory Response in Spontaneous Spinal Cord Regeneration: A HINT FOR CNS REGENERATION. J. Biol. Chem. 288:18204-182128.

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/elisa-kits/his-tag-protein/11403>