

Product Specification Sheet

**Recombinant Hisx6 (His-tag) fusion Protein**

**Cat. HISP11-C** Recombinant Hisx6-tag (His-tag)-Fusion protein for Western **SIZE:** 100 ul

**Cat. HISP15-R** Recombinant Hisx6-tag (His-tag)-Fusion protein for ELISA **SIZE:** 100 ug

Recombinant DNA technology allows the addition of short pieces of well-defined tags, "peptides" or proteins at the amino or c-terminus of target genes, which can provide 'affinity handles' designed to bind specific matrices. Therefore, tags enables a selective identification and purification of the protein of interest. Poly-His (His x 6) containing proteins can be purified by immobilized metal ion affinity chromatography (IMAC), making use of its high affinity for transition metal ions (1-4). This purification system eliminates the harsh conditions required to elute protein from ligand affinity columns. Numerous recombinant fusion proteins have been engineered with histidine tags to allow detection, isolation and purification of fusion proteins (1-4). Anti-poly may be used to identify the expression of a poly-histidine fusion protein in bacteria, bacterial lysates or cells and tissues transfected with a poly-histidine fusion protein expression vectors.

**Source of Antigen and Antibodies**

Poly Hisx6-tag (His-tag) was expressed as N-terminal fusion protein of ~10 kDa in E. coli and purified to >95%. It is supplied for use in Western blot (**Cat # HISP11-C**) or for ELISA coating or other applications (**Cat # HISP15-R**).

Recombinant purified fusion protein control for **Western blot +ve control (Cat # HISP11-C)** is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of HISP11-C for good visibility with antibody Cat # HISP11-S or other antibodies. The HISP11-C protein migrate as ~9-10 kda band. It will be necessary to have proper size gel (e.g., 10% or 4-10% for proper resolution of small protein. Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming and light mixing at room temperature. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the HISP11-C solution prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. This preparation is intended for qualitative purpose and not to serve as standard of known concentration. Do not freeze, thaw, or heat repeatedly.

**Cat #HISP15-R** is supplied in PBS, pH 7.4 at 100 ug/100 ul in liquid or in powder. Reconstitute the powder in 100 ul PBS to prepare 1 mg/ml solution or other desired concentrations. Store stock solutions at -20oC or below in suitable size aliquots. Do not repeatedly freeze and thaw.

**Cat # HISP15-R** can be used in ELISA as coating protein at 1-5 ug/ml or used as positive control or standards in ELISA or used as HA-tag positive control in Western or other similar applications.

**Related items available from ADI**

HA11-A, Rabbit Anti-Hemeagglutinin fusion (HA-tag) IgG  
HA11-C, Recombinant, purified, HA-tag -Protein (~9 kda) control, WB +ve control  
HA11-P, Hemeagglutinin fusion (HA-tag) blocking peptide#1  
HA11-S, Rabbit Anti-Hemeagglutinin fusion (HA-tag) antiserum

HA12-A, Anti-Hemeagglutinin fusion epitope (HA-tag) IgG #2  
HA12-AS, Anti-Hemeagglutinin fusion (HA-tag) IgG-Agarose  
HA12-FITC, Anti-Hemeagglutinin fusion (HA-tag) IgG-FITC  
HA12-HRP, Anti-Hemeagglutinin fusion (HA-tag) IgG-HRP  
HA15-R, Recombinant, purified, HA-tag -Protein (~9 kda) control for ELISA

**Storage**

**Short-term:** unopened, undiluted vials for less than a week at 4oC.

**Long-term:** at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

**Stability:** 6-12 months at -20oC or below.

**Shipping:** 4oC for solutions and room temp for powder.

**General References:**

Gazin C et al (1984) EMBO J 3, 383-387; Tachibana K et al (1992) Gene, in press.

\*This product is for In vitro research use only.

**Other Fusion tag antibodies available from ADI**

Anti-MBP, Poly-His, GST, beta-Gal, VSV-G, HA-tag, and c-myc **Western Blot Recycling Kit (Strips blots in 5 minutes)** and re-use the same blot with multiple antibodies

HISP11-C-15-R

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