

Product Specification Sheet

**Recombinant HA –tag fusion Protein**

**Cat. HA15-R**      Recombinant Hemeagglutinin-tag (HA-tag)-Fusion protein for ELISA      **SIZE:** 100 ug  
**FORM:** Soln      Lyophilized

Expression of genes in E. coli or yeast or baculovirus offers a convenient system to produce large amounts of recombinant proteins that may otherwise be difficult to isolate from natural cells and tissues. Very often antibodies to these newly identified proteins are not available to study its biochemical properties, monitor protein expression, and purification. In order to circumvent this problem, short pieces of well-defined peptides (**Poly-His, Flag-epitope or c-myc epitope or HA-tag**) or small proteins (**bacterial GST, MBP, Thioredoxin, b-Galactosidase, VSV-Glycoprotein etc**) are often cloned along with the target gene. Proteins are expressed as fusion proteins. Antibodies to these fusion-tags are already available to monitor fusion protein expression and purification. Therefore, fusion-tags serve as universal tags much like secondary antibodies. Many tags have their own characteristics. Poly-His-fusion proteins (6 x His) can bind to Nickel-Sepharose or Nickel-HRP. GST-fusion proteins can bind to glutathione-Sepharose. Therefore, a high degree of purification of fusion protein can be achieved in just one affinity purification step. Purity of fusion proteins can be followed by Tag-antibodies. Very often, fusion proteins are directly injected into animals to generate antibodies. Some fusion tags can be removed later by treatment with enzymes to generate tag-free recombinant proteins.

**Source of Antigen and Antibodies**

Hemeagglutinin-tag (HA-tag) represents a 9-aa peptide sequence (**designated HA11-P; control peptide**) from hemagglutinin influenza virus (aa 114-122; YPY DVP DYA) (1). The HA-tag was expressed as N-terminal fusion protein of ~9.5 kDa in E. coli and purified to >95%. It is supplied for use in Western blot (Cat # HA11-C) or for ELISA coating or other applications (Cat # HA15-R).

**Cat #HA15-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 # HA15-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

HA15-R      71215A

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