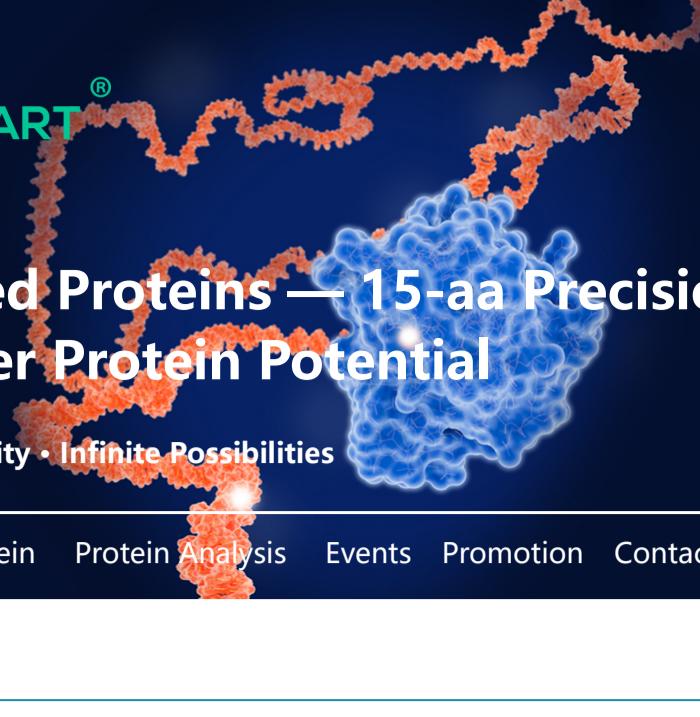




CREATIVE BIOMART®



# Avi-Tag Biotinylated Proteins — 15-aa Precision Labeling for Greater Protein Potential

Precise Labeling • Consistent Activity • Infinite Possibilities

Recombinant Protein Protein Analysis Events Promotion Contact Us

## Key Features

**Site-Specific Labeling:** Our 15-aa Avi-Tags are biotinylated at a single lysine site catalyzed by BirA enzyme with labeling efficiency  $\geq 95\%$  (far from the active site), resulting in zero activity loss.

**Oriented Immobilization:** Our tags boast 100% oriented capture on streptavidin surfaces and are suitable for SPR/BLI chips, ELISA plates, flow cytometry beads, and magnetic beads, doubling the signal with  $CV < 5\%$ .

**Dual Tags:** We provide Avi + His / Fc / Flag combinations for purification, detection, and immobilization in one step, accelerating experiments by as much as 30%.

**High Batch-to-Batch Consistency:** Produced in HEK293 mammalian systems with authentic glycosylation; each batch undergoes quadruple quality checks through SDS-PAGE, SEC-HPLC, ELISA, and SPR.

**Ultra-Short Peptide Tag:** Only 1/5th the size of traditional chemical tags with low immunogenicity, ensuring no interference *in vivo* or *in vitro* applications.

**Flexible Scale:** We seamlessly accommodate any scale from  $\mu\text{g}$  to  $\text{g}$  and provide custom options, a rapid delivery of 4-6 weeks, and mutant/fusion designs.

**300+ Types of High-Activity Recombinant Proteins:** Covering over 10 species including human, mouse, monkey, and bovine, all precisely biotinylated by BirA enzyme with labeling efficiency  $\geq 95\%$ .

**Three Expression Systems:** HEK293, insect, or *E. coli* systems, offering true glycosylation and folding to meet diverse needs for basic research, antibody screening, and preclinical evaluation.

**Rapid Delivery of Stock Products and Hassle-Free Customization:** Standard products delivered in 4-6 weeks; with comprehensive support for bulk orders, mutations, and fusion designs from our professional team.



## Product Showcase

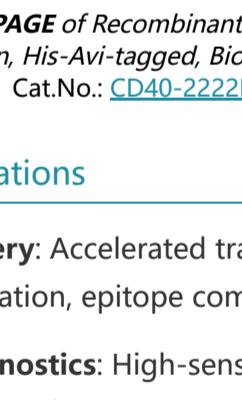
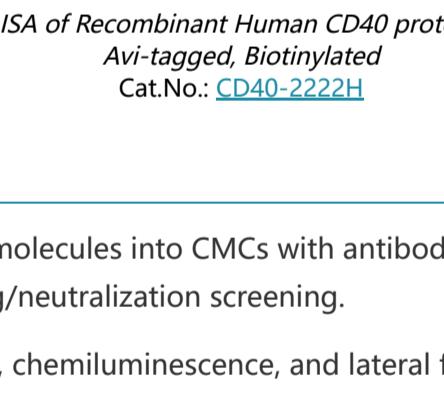
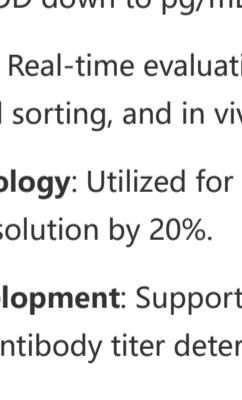


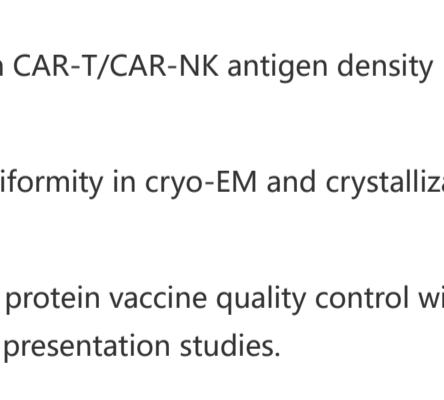
Figure 1. Tris-Bis PAGE of Recombinant Human CD86 protein, His-Avi-tagged, Biotinylated Cat.No.: [CD86-581H](#)



2. ELISA of Recombinant Human CD86 protein, His-Avi-tagged, Biotinylated Cat.No.: [CD86-581H](#)



3. Tris-Bis PAGE of Recombinant Human CD40 protein, His-Avi-tagged, Biotinylated Cat.No.: [CD40-2222H](#)



4. ELISA of Recombinant Human CD40 protein, His-Avi-tagged, Biotinylated Cat.No.: [CD40-2222H](#)



## Applications

**Drug Discovery:** Accelerated transition of candidate molecules into CMCs with antibody affinity maturation, epitope competition, and blocking/neutralization screening.

**Immunodiagnostics:** High-sensitivity sandwich ELISA, chemiluminescence, and lateral flow assays with LOD down to  $\text{pg}/\text{mL}$ .

**Cell Therapy:** Real-time evaluation of efficacy through CAR-T/CAR-NK antigen density detection, cell sorting, and *in vivo* tracing.

**Structural Biology:** Utilized for protein orientation uniformity in cryo-EM and crystallization, enhancing resolution by 20%.

**Vaccine Development:** Supports mRNA/recombinant protein vaccine quality control with neutralizing antibody titer determination and antigen presentation studies.

**Bioprocessing:** Enhances yield by 40% through chromatographic resin functionalization and continuous flow purification process development.

Browse Our Product Catalog Now

Professional,

High Purity, High Yield,

Bioactive, Batch Consistent,

Global Delivery



USA

45-1 Ramsey Road, Shirley, NY 11967, USA  
Tel: 1-631-559-9269 / 1-516-512-3133  
Fax: 1-631-938-8127

Germany

65830 Krefeld, Gutenbergstraße 5, Frankfurt am Main,  
Germany  
+491793975992  
Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)

Global Locations

CREATIVE BIOMART INC.

Save Now

Back-to-School Sale 2025 - 20% off

Monthly Special Release - as jaw-dropping as 50% off

Discover. Save. Enjoy