



## Synonyms

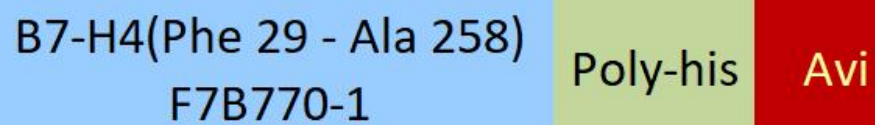
B7-H4, VTCN1, B7S1, B7h.5

## Source

Biotinylated Cynomolgus / Rhesus macaque B7-H4 Protein, His,Avitag (B74-C82E3) is expressed from human 293 cells (HEK293). It contains AA Phe 29 - Ala 258 (Accession # [F7B770-1](#)). In the region Phe 29 - Ala 258, the amino acid sequences of Cynomolgus and Rhesus macaque B7-H4 are identical.

Predicted N-terminus: Phe 29

## Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 28.9 kDa. The protein migrates as 40-55 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Labeling

**Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.**

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

## Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

**Please avoid repeated freeze-thaw cycles.**

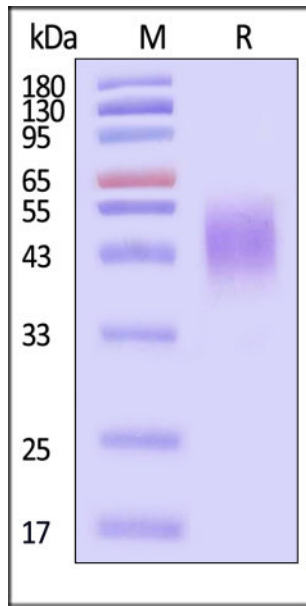
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

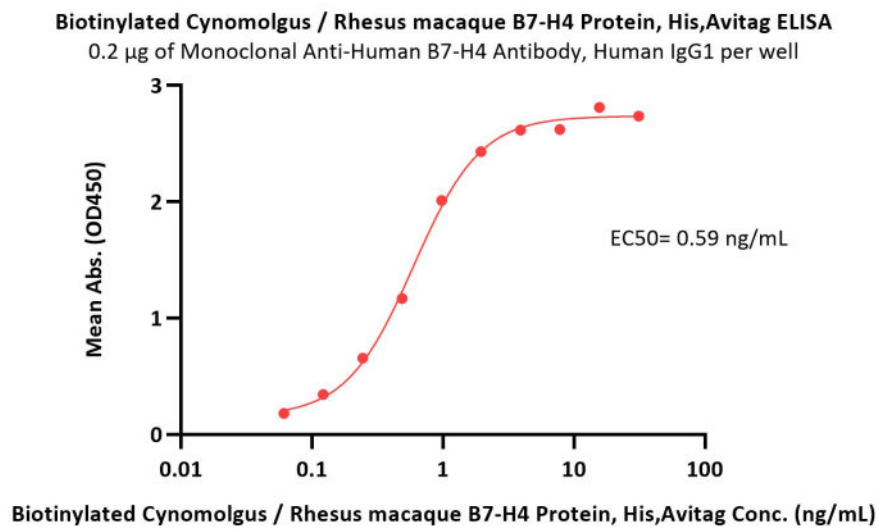
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



Biotinylated Cynomolgus / Rhesus macaque B7-H4 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA



Immobilized Monoclonal Anti-Human B7-H4 Antibody, Human IgG1 at 2 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus / Rhesus macaque B7-H4 Protein, His,Avitag (Cat. No. B74-C82E3) with a linear range of 0.06-1 ng/mL (QC tested).

## Background

V-set domain-containing T-cell activation inhibitor 1 (VTCN1) is also known as Immune costimulatory protein B7-H4, Protein B7S1, T-cell costimulatory molecule B7x, B7H4, which belongs to the immunoglobulin superfamily and BTN/MOG family. VTCN1 contains two Ig-like V-type (immunoglobulin-like) domains. The expression of VTCN1 is up-regulated by IL6 and IL10 and is inhibited by GM-CSF and IL4 on antigen-presenting cells (APCs). VTCN1 / B7-H4 negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. VTCN1 involved in promoting epithelial cell transformation.

Discounts, Gifts,  
and more!



[www.acrobiosystems.com](http://www.acrobiosystems.com)

