# Biotinylated Human BAFFR / TNFRSF13C Protein, His,Avitag™ (MALS verified)

Catalog # BAR-H82E3

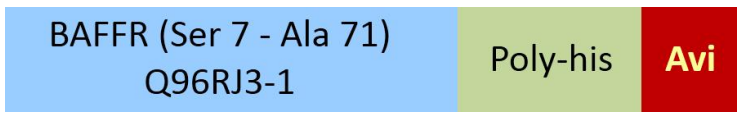
## Synonym

BAFFR,TNFRSF13C,BROMIX,CD268,CVID4,prolixin,BAFF-R

## Source

Biotinylated Human BAFFR, His,Avitag(BAR-H82E3) is expressed from human 293 cells (HEK293). It contains AA Ser 7 - Ala 71 (Accession # Q96RJ3-1). Predicted N-terminus: Ser 7

## 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 10.1 kDa. The protein migrates as 15-22 kDa 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.***

## Storage

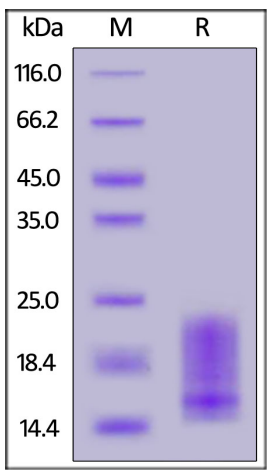
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

This product is stable after storage at:

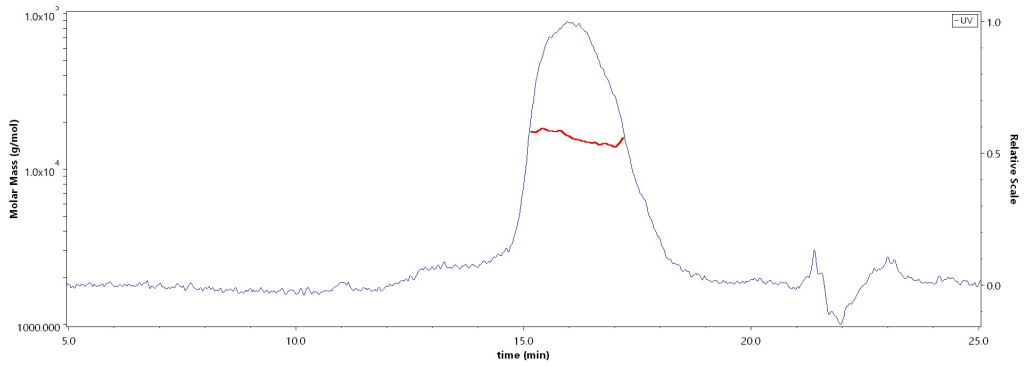
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



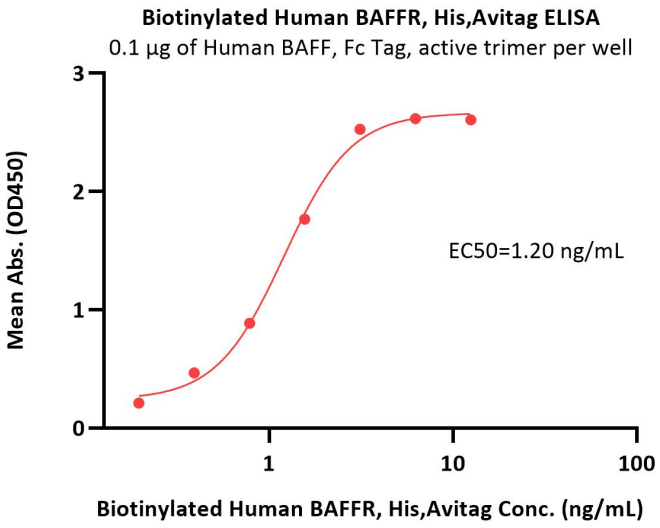

Biotinylated Human BAFFR, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## SEC-MALS

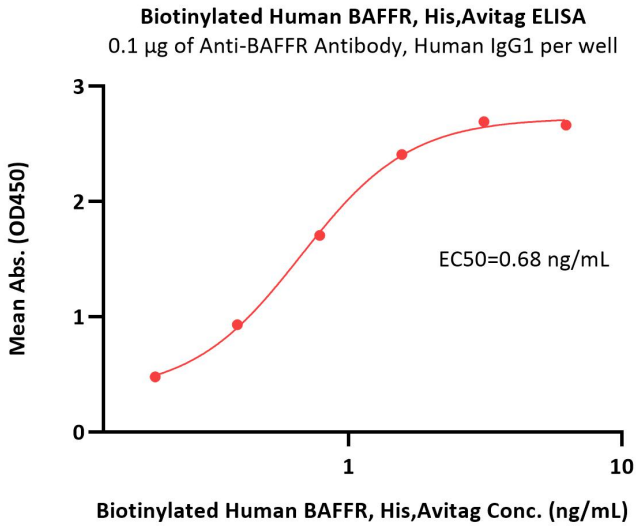



The purity of Biotinylated Human BAFFR, His,Avitag (Cat. No. BAR-H82E3) is more than 85% and the molecular weight of this protein is around 12-20 kDa verified by SEC-MALS.
Report

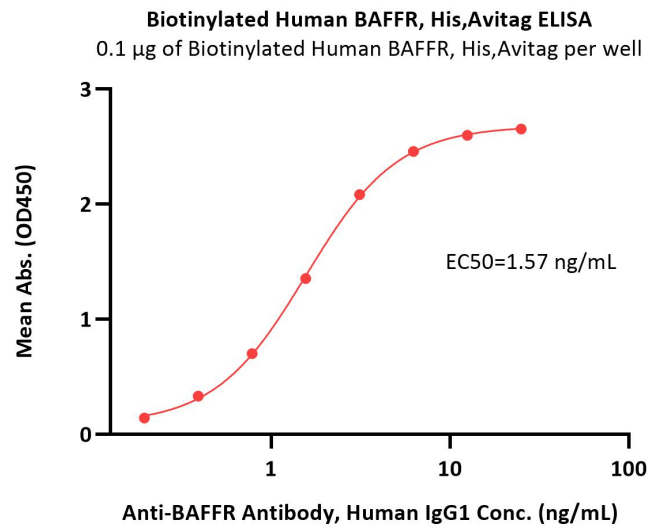
## Bioactivity-ELISA




Immobilized Human BAFF, Fc Tag, active trimer (Cat. No. BAF-H5261) at 1 μg/mL (100 μL/well) can bind Biotinylated Human BAFFR, His,Avitag (Cat. No. BAR-H82E3) with a linear range of 0.2-2 ng/mL (QC tested).




Immobilized Anti-BAFFR Antibody, Human IgG1 at 1 μg/mL (100 μL/well) can bind Biotinylated Human BAFFR, His,Avitag (Cat. No. BAR-H82E3) with a linear range of 0.2-0.8 ng/mL (Routinely tested).




Immobilized Biotinylated Human BAFFR, His,Avitag (Cat. No. BAR-H82E3) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Anti-BAFFR Antibody, Human IgG1 with a linear range of 0.2-3 ng/mL (Routinely tested).

## Background

BAFF receptor (B-cell activating factor receptor, BAFF-R), also known as tumor necrosis factor receptor superfamily member 13C (TNFRSF13C), is a membrane protein of the TNF receptor superfamily which recognizes BAFF. B-cell activating factor (BAFF) enhances B-cell survival in vitro and is a regulator of the peripheral B-cell population. Overexpression of BAFF in mice results in mature B-cell hyperplasia and symptoms of systemic lupus erythematosus (SLE). Also, some SLE patients have increased levels of BAFF in serum. Therefore, it has been proposed that abnormally high levels of BAFF may contribute to the pathogenesis of autoimmune diseases by enhancing the survival of autoreactive B cells.