

Synonym

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

SourceHuman BAFFR, Fc Tag(BAR-H5257) is expressed from human 293 cells (HEK293). It contains AA Ser 7 - Ala 71 (Accession # [Q96RJ3-1](#)).

Predicted N-terminus: Ser 7

Molecular Characterization

BAFFR(Ser 7 - Ala 71) Q96RJ3-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus

The protein has a calculated MW of 33.2 kDa. The protein migrates as 40-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

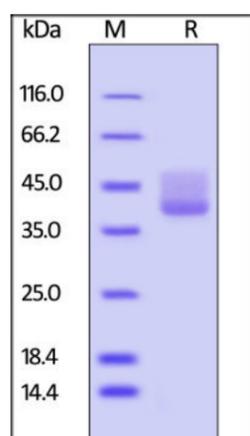
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

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

Please avoid repeated freeze-thaw cycles.

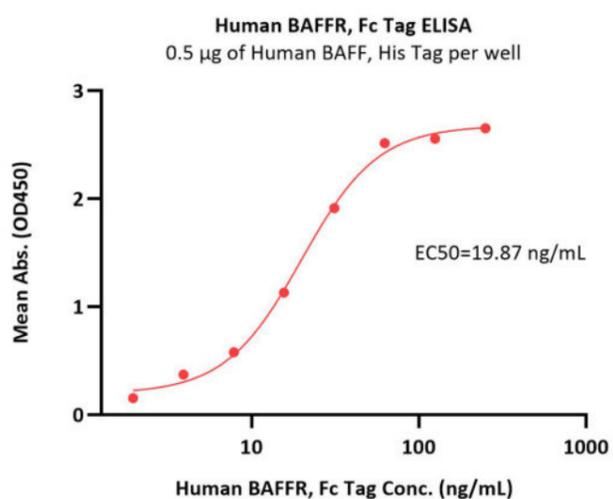
This product is stable after storage at:

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

SDS-PAGE

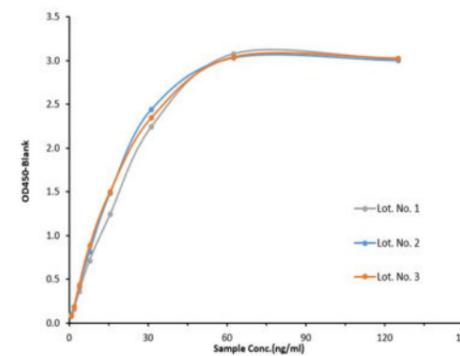
Human BAFFR, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



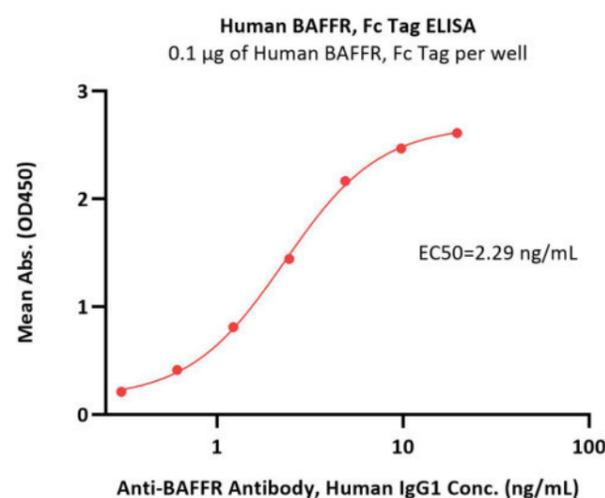
Immobilized Human BAFF, His Tag (Cat. No. BAF-H5248) at 5 µg/mL (100 µL/well) can bind Human BAFFR, Fc Tag (Cat. No. BAR-H5257) with a linear range of 2-31 ng/mL (QC tested).

Batch consistency



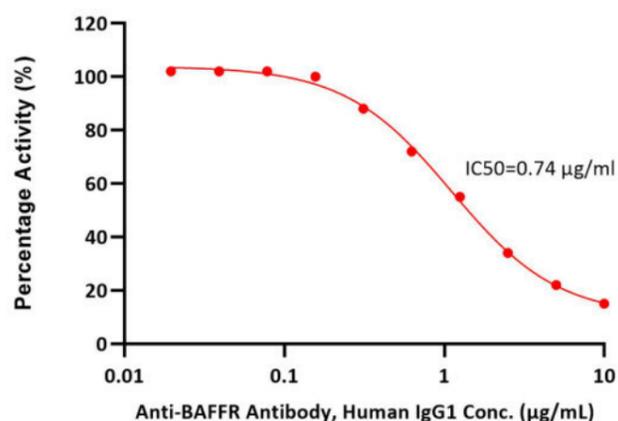
Lot. No.	EC50(µg/mL)
Lot. No. 1	0.0214
Lot. No. 2	0.0166
Lot. No. 3	0.0161

Report



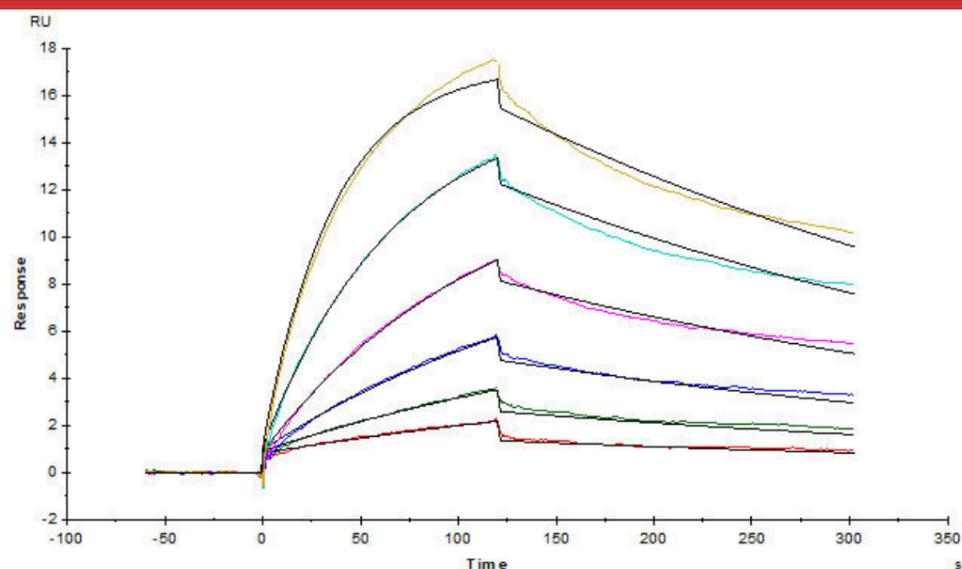
Immobilized Human BAFFR, Fc Tag (Cat. No. BAR-H5257) at 1 µg/mL (100 µL/well) can bind Anti-BAFFR Antibody, Human IgG1 with a linear range of 0.2-5 ng/mL (QC tested).

Inhibition of Biotinylated Human BAFF, His,Avitag (active trimer) ELISA
0.1 µg of Human BAFFR, Fc Tag per well



Serial dilutions of Anti-BAFFR Antibody, Human IgG1 were added into Human BAFFR, Fc Tag (Cat. No. BAR-H5257): Biotinylated Human BAFF, His,Avitag (active trimer) (MALS verified) (Cat. No. BAF-H82Q2) binding reactions. The half maximal inhibitory concentration (IC50) is 0.7363 µg/mL (Routinely tested).

Bioactivity-SPR



Immobilized Biotinylated Human BAFF, Avitag, Fc Tag (active trimer) (MALS verified) (Cat. No. BAF-H82F3) on SA Chip can bind Human BAFFR, Fc Tag (Cat. No. BAR-H5257) with an affinity constant of 26.7 nM as determined in a SPR assay (Biacore T200) (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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.