

# Cynomolgus BAFFR / TNFRSF13C Protein, Fc Tag (MALS verified)

Catalog # BAR-C5253



BIOSYSTEMS  
**Acro**

## Synonym

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

## Source

Cynomolgus BAFFR Protein, Fc Tag (BAR-C5253) is expressed from human 293 cells (HEK293). It contains AA Ser 7 - Gly 76 (Accession # [A0A2K5V1K1](#)).

## Molecular Characterization

BAFFR(Ser 7 - Gly 76) A0A2K5V1K1	Fc(Pro 100 - Lys 330) P01857-1
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 33.6 kDa. The protein migrates as 40-50 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## 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.**

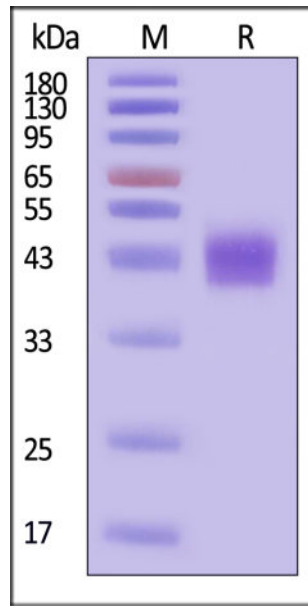
This product is stable after storage at:

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

## ACRO Quality Management System

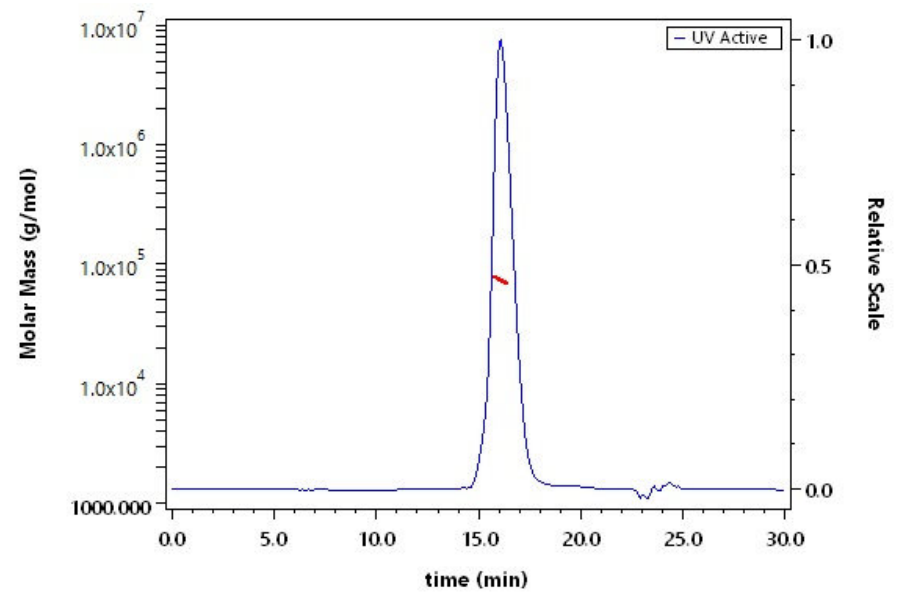
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



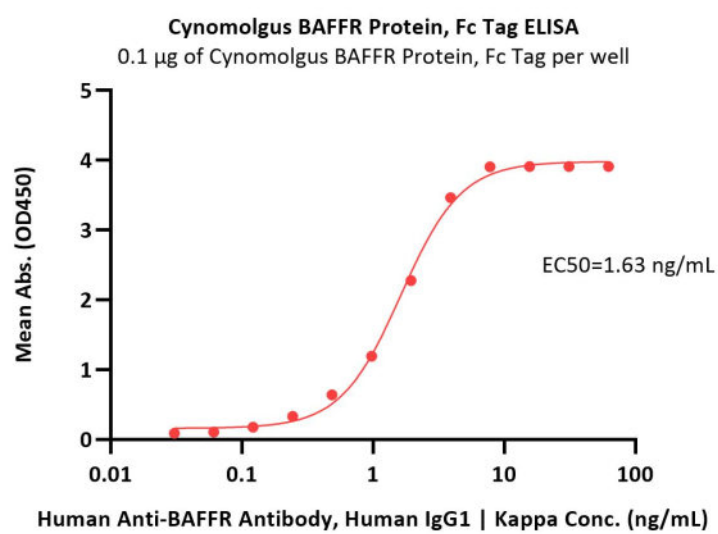
Cynomolgus BAFFR Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



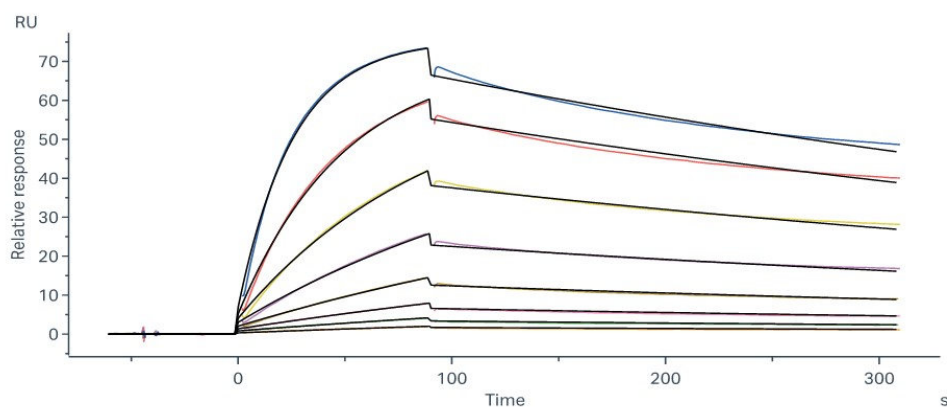
The purity of Cynomolgus BAFFR Protein, Fc Tag (Cat. No. BAR-C5253) is more than 90% and the molecular weight of this protein is around 66-86 kDa verified by SEC-MALS.

## Bioactivity-ELISA



Immobilized Cynomolgus BAFFR Protein, Fc Tag (Cat. No. BAR-C5253) at 1  $\mu\text{g/mL}$  (100  $\mu\text{L/well}$ ) can bind Human Anti-BAFFR Antibody, Human IgG1 | Kappa with a linear range of 0.03-8 ng/mL (QC tested).

## Bioactivity-SPR



Cynomolgus BAFFR Protein, Fc Tag (Cat. No. BAR-C5253) captured on Protein A Chip can bind Cynomolgus BAFF Protein, His Tag, active trimer (Cat. No. BAF-C5243) with an affinity constant of 2.14 nM as determined in a SPR assay (Biacore 8K) (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.

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