

BAFFR/TNFRSF13C Protein, Human, Recombinant (hFc)

General Information

Synonyms:	BROMIX;BAFFR;CD268;BAFF-R;prolixin;CVID4;tumor necrosis factor receptor superfamily, member 13C
Protein Construction:	Ser7-Ala71
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q96RJ3-1
Molecular Weight:	33.3 kDa (Predicted); 40-48 kDa (Reducing conditions due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human BAFF Trimer, His Tag at 1µg/ml (100µl/well). Dose response curve for Human BAFFR, hFc Tag with the EC50 of 37.8ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

BAFF binds to three TNF receptor superfamily members: B-cell maturation antigen (BCMA/TNFRSF17), transmembrane activator and calcium-modulator and cyclophilin ligand interactor (TACI/TNFRSF13B) and BAFF receptor (BAFF R/BR3/TNFRSF13C). These receptors are type III transmembrane proteins that lack a signal peptide. Whereas TACI and BCMA bind BAFF and another TNF superfamily ligand, APRIL (a proliferation-inducing ligand), BAFF R selectively binds BAFF.

Reference

Ashkenazi A, et al. (1998) Death receptors: signaling and modulation. *Science*. 281(5381): 1305-8.

Losi CG, et al. (2005) Mutational analysis of human BAFF receptor TNFRSF13C (BAFF-R) in patients with common variable immunodeficiency. *J Clin Immunol*. 25(5): 496-502.

Hentges KE, et al. (2002) Tnfrsf13c (Baffr) is mis-expressed in tumors with murine leukemia virus insertions at Lvis22. *Genomics*. 80(2): 204-12.

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