Recombinant human BAFF R/TNFRSF13C protein

Catalog Number: ATGP4131

PRODUCT INFORMATION

Expression system
HEK293

Domain
1-78aa

UniProt No.
Q96RJ3

NCBI Accession No.
NP_443177.1

Alternative Names
Tumor necrosis factor receptor superfamily member 13C, B-cell-activating factor receptor, BAFF receptor, BAFF-R, BLyS receptor 3, BROMIX, CD268, CVID4, prolixin, TNFRSF13C, Br3

PRODUCT SPECIFICATION

Molecular Weight
34.4kDa (314aa)

Concentration
1mg/ml (determined by Absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Measured by its binding ability in a functional ELISA with Human BAFF (CAT# ATGP4139). The ED50 range ≤ 0.7 ug/ml.

Tag
hIgG-Tag

Application
SDS-PAGE, Bioactivity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

BAFFR, also known as TNFRSF13C, is a member of the tumor necrosis factor receptor superfamily. Members of the TNF receptor superfamily (TNFRSF) have crucial roles in both innate and adaptive immunity and in cellular apoptosis process. Whereas TACI and BCMA bind BAFF and another TNF superfamily ligand, APRIL, BAFFR selectively binds BAFF. The BAFFR extracellular domain lacks the CRD (TNF receptor canonical cysteine-rich domain and contains only a partial CRD with four cysteine residues. It is highly expressed in spleen, lymph node and resting B cells and is thought the principal receptor required for BAFF-mediated mature B-cell survival. It has been proposed that abnormally high levels of BAFFR may contribute to the pathogenesis of autoimmune diseases by enhancing the survival of autoreactive B cells. Recombinant human BAFFR, fused to hIgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

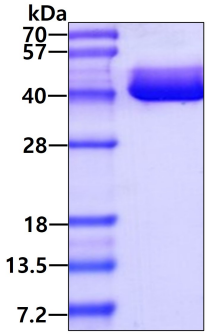
<DGS>MRRGPRS LRGRDAPAPT PCVPAECFDL LVRHCVACGL LRTPRPKPAG ASSPAPRTAL QPQESVGAGA GEAALPLPGL L<LEPKSCDKT HTCPPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVLTVLHQDW LNGKEYKCKV SNKALPAPIE KTISKAKGQP REPQVYTLPP SRDELTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT TPPVLDSDGS FFLYSKLTVD KSRWQQGNVF SCSVMHEALH NHYTQKSLSL SPGK>

General References

Losi CG, et al. (2005) J Clin Immunol. 25:496-502.
Rolink, A.G, et al. (2002) Curr. Opin. Immunol. 14:266-275.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity

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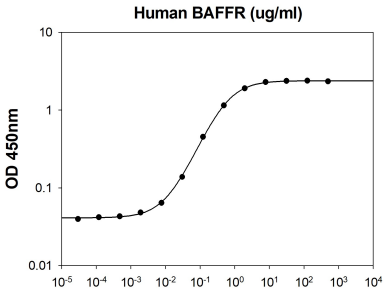

Human BAFF (CAT# ATGP4139) is coated at 5 ug/ml (100 ul/well) can bind Human BAFFR. The ED50 range ≤ 0.7 ug/ml.