



# Recombinant Human BAFF receptor, soluble

20210128BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>S01-038</b>
Size:	50 µg
Lot. No.:	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	115650
<b>Synonyms:</b>	TNFRSF13C; BAFFR; CD268; CVID4; BAFF-R; BROMIX; prolixin

BAFF Receptor (BAFF-R), a member of the TNFR superfamily, is highly expressed in spleen, lymph node, and resting B cells and to some extent in activated B cells, resting CD4+ cells and peripheral blood leukocytes. BAFF-R is a type III transmembrane protein that binds with high specificity to BAFF (TNFSF13B). BAFF-R/BAFF signaling plays a critical role in B cell survival and maturation. Recombinant human BAFF-R is a 76 amino acid polypeptide (7.7 kDa) corresponding to the extracellular portion of the full BAFF-R protein.

### Sequence

MRRGPRSLRG RDAPAPTPCV PAECFDLLVR HCVACGLLRT  
PRPKPAGASS PAPTALQPQ ESGAGAGEA ALPLPG

### Database References

<b>Protein RefSeq:</b>	NP_443177
<b>Uniprot ID:</b>	Q96RJ3
<b>mRNA RefSeq:</b>	NM_052945

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 95% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	Lyophilized (0.5x PBS, pH 7.2)
<b>Length (aa):</b>	76
<b>MW:</b>	7.7 kDa

**Stability:** The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

**Reconstitution:** Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

**Biological Activity:** Determined by its ability to block BAFF induced mouse splenocyte survival. The expected ED<sub>50</sub> for this effect is 2.0 – 4.0 µg/ml in the presence of 1.0 µg/ml of human soluble BAFF.