

## PRODUCT DATA SHEET

**Product:** BAFF-R(mouse):Fc(human recombinant)

**Cat. No.:** BC-324 (50 µg)

**Synonyms:**

BR3; BlySR3; TNFRSF 13C; CD268

**Source/Host:**

Produced in HEK 293 cells. The extracellular domain of mouse BAFF-R (aa 2-70) is fused at the C-terminus to a linker peptide (10) and the Fc portion of human IgG<sub>1</sub>.

**Molecular Weight:**

~35 kDa as determined by SDS-PAGE

**Format:**

Lyophilized. Contains PBS. Reconstitute with 50 µL of sterile water for 1 mg/mL solution. Further dilutions should be made with medium containing 5% fetal calf serum or other carrier protein. After reconstitution, prepare aliquots and store at -20°C.

**Purity:**

≥95% as determined by SDS-PAGE.

Endotoxin: <0.1 EU/µg of purified protein (LAL test).

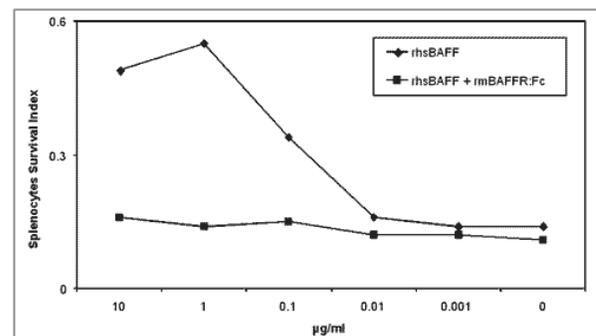
**Biological Activity and Application:**

Binds to mouse and human BAFF and blocks BAFF binding to their BAFF-receptors, thus inhibiting BAFF mediated splenocyte survival.

Also used in flow cytometry experiments to detect membrane-bound mouse and human BAFF.

**Storage:**

Store at -20°C. After reconstitution, prepare aliquots and store at -20°C.



Inhibition of rhsBAFF-mediated splenocyte survival.

Figure: rmBAFF-R:Fc inhibits rhsBAFF-mediated activation of freshly isolated splenocytes. Concentration of rmBAFF-R:Fc (BC-324) to achieve complete inhibition depends on the concentration of rhsBAFF (BC-321) used. A ratio (rhsBAFF:rmBAFF-R:Fc) 1:50 and higher is recommended.

**Method:** On day 0 splenocytes were isolated from a freshly collected C57Bl6 spleen. An aliquot of the splenocytes was analyzed on FACS, and B cells were gated on the SSC-FSC panel. FACS settings were saved. The rest of the cells were put in culture with media alone, with the indicated concentration of rhsBAFF alone or in the presence of an excess of rmBAFF-R:Fc (50 µg/mL). After three days in culture, cells were again analyzed on FACS with the saved setting. Splenocytes survival index (=ratio of %living/%dead cells) was calculated and plotted.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.