Recombinant Human B cell Activating Factor Receptor (rh BAFF-R / CD268)

Synonyms: TNFRSF13C

Introduction: 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). Some SLE patients have also 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. The protein encoded by this gene is a receptor for BAFF and is a type III transmembrane protein containing a single extracellular cysteine-rich domain.
It is thought that this receptor is the principal receptor required for BAFF-mediated mature B-cell survival.

Description: Human recombinant BAFF- R extracellular produced in E.Coli is a single, non-glycosylated poly-peptide chain containing 76 amino acids and having a molecular mass of 7.7 kDa.
The BAFF-R is purified by proprietary chromatographic techniques.

Source: Escherichia Coli

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 8.0, 500mM NaCl.
The samples of 1µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh BAFF-R in sterile H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh BAFF-R although stable at room temperature for 3 weeks, should be stored desiccated below –18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Amino Acid Sequence: MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPAGAS SPAPRTALQPQESVGAGAGEAALPLPG

Biological Activity Determined by its ability to block BAFF induced mouse splenocyte survival. The expected ED_{50} for this effect is 1.0 - 5.0 µg/ml in the presence of 1.0 µg/ml of human soluble BAFF.

This material is offered for **research use only.** Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

small	5 µg	Cat.N°	11344440
medium	20 µg	Cat.N°	11344444

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