BAFF (BLyS) Receptor, human recombinant (rHuBAFF-R)

Catalog No: 87365
Lot No: XXXXX
Source: *E. coli*
Synonyms: TNFRSF13C, CD268, BAFF-R, MGC138235, B cell-activating factor receptor

Background

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). Also, some SLE patients have 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

B Lymphocyte Stimulator Receptor human recombinant extracellular produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 76 amino acids and having a molecular mass of 7.7 kDa. BAFF-R is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated (1.0 mg/ml) solution in 20 mM PB, pH 8.0, 500 mM NaCl.

Solubility

It is recommended to reconstitute the lyophilized B Lymphocyte Stimulator Receptor in sterile 18 MΩ-cm H_2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized BAFF-R, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution B Lymphocyte Stimulator Receptor should be stored at 4°C between 2-7 days and for future use below -18°C. 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

MRRGPRSLRG RDAPAPTPCV PAECFDLLVR HCVACGLLRT PRPKPAGASS PAPRTALQPQ ESVGAGAGEA ALPLPG

Activity

Determined by its ability to block BAFF induced mouse splenocyte survival. The expected ED50 for this effect is 1000 - 5000 ng/ml corresponding to a specific activity of 200 - 1000 IU/mg in the presence of 1.0 µg/ml of human soluble BAFF.

Usage

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