

Human CD257 (BAFF, BLYS) Recombinant Protein

Catalog Number: 14-8943

Also Known As: B-Cell Activating Factor

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Human CD257 (BAFF, BLYS) Recombinant Protein

REF **Catalog Number:** 14-8943

Concentration: 0.1 mg/mL

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: E. coli expressed amino acids Ala134 - Leu285
Accession # Q9Y275

Molecular Mass: 17.2 kDa

Purity: > 90%, as determined by reducing SDS-PAGE

Endotoxin Level: Less than 0.40 ng/ug as determined by the LAL assay.

Bioactivity: The ED₅₀, as determined by a mouse splenocyte survival assay, is 1.6 ug/mL.

Formulation: Sterile liquid; 10 mM phosphate, 150 mM NaCl, 1.0% BSA. 0.22 um filtered.



Temperature Limitation: Store at less than or equal to -70°C.



Batch Code: Refer to Vial



Use By: Refer to Vial

Description

Recombinant human BAFF (B-cell activating factor), also referred to as BlyS, is a type II transmembrane protein of the TNF superfamily. BAFF is found on T cells, macrophages and dendritic cells. BAFF contains a cytoplasmic domain, transmembrane domain and extracellular domain which can be cleaved between amino acid 133 and 134 to produce a soluble form detectable in serum. Receptors for BAFF include TACI, BAMBI and BAFFR. BAFF/BLYS is a B lymphocyte stimulatory molecule; it induces B cell proliferation and immunoglobulin secretion. In addition BAFF can provide a co-stimulation signal to T lymphocytes. Elevated levels of BAFF has been implicated in the pathogenesis of some autoimmune diseases (particularly) B cell diseases such as systemic lupus erythaematosus. Human and mouse BAFF share 86% amino acid sequence identity.

Applications Reported

Recombinant human BAFF is biologically active.

Applications Tested

The ED₅₀, as determined by a mouse splenocyte survival assay, is 1.6 µg/ml.

References

Ryan, M. C. Grewal, I. Targeting of BAFF and APRIL for Autoimmunity and Oncology. *Adv Exp Med Biol.* 2009; 647:52-63.

Mackay F, Schneider P. Cracking the BAFF code. *Nat Rev Immunol.* 2009; 9(7):491-502.

Mackay F, Silveira PA, Brink R. B cells and the BAFF/APRIL axis: fast-forward on autoimmunity and signaling. *Curr Opin Immunol.* 2007; 19 (3):327-36.

Related Products

11-9017 Anti-Human CD257 (BAFF, BLYS) FITC (1D6)
11-9117 Anti-Human CD268 (BAFF Receptor) FITC (8A7)
12-9017 Anti-Human CD257 (BAFF, BLYS) PE (1D6)
12-9117 Anti-Human CD268 (BAFF Receptor) PE (8A7)
13-9017 Anti-Human CD257 (BAFF, BLYS) Biotin (1D6)
14-9017 Anti-Human CD257 (BAFF, BLYS) Purified (1D6)
14-9117 Anti-Human CD268 (BAFF Receptor) Purified (8A7)

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