Human BAFF (BLyS) Recombinant Protein, eBioscience™

Product Details

Size	25 µg
Species	Human
Expression system	E. coli
Amino acid sequence	Human BAFF, amino acids Ala134-Leu285 (Accession # Q9Y275)
Molecular weight	18.5 kDa
Class	Recombinant
Type	Protein
Purity	>90% by reducing SDS-PAGE
Endotoxin concentration	<0.40 ng/µg
Activity	ED50 = 1.6 µg/mL; determined by a mouse splenocyte survival assay.
Conjugate	Unconjugated
Form	Liquid
Concentration	0.1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS
Contains	no preservative
Storage conditions	-80°C

Applications	Tested Dilution	Publications
Functional Assay (FN)	Assay-Dependent	-
Control (Ctrl)	Assay-Dependent	-

Product Specific Information

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 splenocytes survival assay, is 1.6 µg/mL.

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

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

Endotoxin: Less than 0.40 ng/ug as determined by the LAL assay. Purity: >90% as determined by reducing SDS-PAGE.

Molecular Weight: 18.5 kDa.

Storage and handling: For best recovery, quick-spin vial prior to opening. Use in a sterile environment.

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Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 μm post-manufacturing filtered.

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