



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

Recombinant Human BAFF (BLyS)

Catalog No.
228-10090

Source:
Escherichia coli

Synonyms:

BAFF, BLyS, CD257, TALL1, THANK, ZTNF4, TALL-1, TNFSF20, TNFSF13B, B-cell Activating Factor.

Introduction:

Binds to tnfrsf13b/taci and tnfrsf17/bcma. tnfsf13/april binds to the same 2 receptors, together, they form a 2 ligands -2 receptors pathway involved in the stimulation of b- and t-cell function and the regulation of humoral immunity. a third b-cell specific baff-receptor (baffr/br3) promotes the survival of mature b-cells and the b-cell response.

B Lymphocyte Stimulator functions as a potent B-cell growth factor in costimulation assays. Administration of BAFF Human recombinant to mice disrupts splenic B-cell and T-cell zones and results in elevated levels of serum immunoglobulin.

Description:

BLyS Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 153 amino acids and having a molecular mass of 17007 Dalton.

The BAFF is purified by proprietary chromatographic techniques.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Each mg contains 1.6mg mannitol and 1.2mg HSA.

Solubility

It is recommended to reconstitute the lyophilized BLyS in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability:

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

Please prevent freeze-thaw cycles.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Amino acid sequence

MAVQGPEETV TQDCLQLIAD SETPTIQKGS YTFVPWLLSF KRGSAL EEKE
NKILVKETGY FFIYGQVLYT DKTYAMGHLI QRKKVHVFGD ELSLVTLFRC
IQNMPETLPN NSCYSAGIAK LEEGDELQLA IPRENAQISL DGDVTFFGAL KLL.

Biological Activity

The activity is determined by the dose-dependant stimulation of IL-8 production by human PBMC. The ED50 for this effect is less than 10ng/ml. Please note: results may vary with PBMC donors.

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