



BAFF (BLyS), human recombinant (rHuBAFF)

Catalog No: 87354
Lot No: XXXXX
Source: *E. coli*
Synonyms: BAFF, BLyS, CD257, TALL1, THANK, ZTNF4, TALL-1, TNFSF20, TNFSF13B, B-cell Activating Factor

Background

BAFF 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 baffr-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

BAFF 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. BAFF is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.0.

Solubility

It is recommended to reconstitute the lyophilized BAFF in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized BAFF, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BAFF 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

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

Activity

The activity is determined by a mouse splenocyte survival assay. The ED₅₀ for this effect is 0.5 - 2.0 µg/ml.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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