California Bioscience

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Product Datasheet

Product Name	BAFF Human
Cata No	CB500209
Source	Escherichia Coli.
Synonyms	BAFF, BLYS, CD257, TALL1, THANK, ZTNF4, TALL-1, TNFSF20, TNFSF13B, B-cell Activating Factor.

Description

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 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.

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.
The BAFF is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.0.

Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Reconstitution

It is recommended to reconstitute the lyophilized BAFF in sterile 18M-cm H2O not less than 100μg/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.

Biological Activity

The activity is determined by a mouse splenocyte survival assay. The ED_{50} for this effect is 0.5-2.0μg/ml.

Amino acid sequence

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

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