

BACKGROUND

Human B cell Activating Factor (BAFF), is a Type II member of the TNF superfamily. Although it is typically a transmembrane protein expressed on T cells, macrophages and dendritic cells, it can also be cleaved in the extracellular region to produce a soluble form detectable in the serum. BAFF is thought to be important for the survival and maturation of peripheral B cells. BAFF initiates signaling through three receptors with human BAFF having activity on mouse splenocytes.

Recombinant human BAFF is a 153 amino acid protein, which contains the TNF-like domain and has a molecular mass of 17.2 kDa.

Alternative Names:

TALL, BlyS, THANK

Amino Acid Sequence:

MAVQGP EETV TQDCLQLIAD SETPTIQKGS YTFVPWLLSF
KRGSALEEKE NKILVKETGY FFIYGQVLYT DKTYAMGHLI
QRKKVHVFGD ELSLVTLFRC IQNMPETLPN NSCYSAGIAK
LEEGDELQLA IPRENAQISL DGDVTFFGAL KLL

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant human BAFF is lyophilized from 10 mM Na₂PO₄, pH 7.5.

Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

The activity is determined by a mouse splenocyte survival assay and is typically 0.5-3.0 ug/ml.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

