

---

## Product Data Sheet

---

Product Name: BAFF Human, Plant  
 Cat. No.: GP20092  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Nicotiana benthamiana plant
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	BAFF; BLYS; CD257; TALL1; THANK; ZTNF4; TALL-1; TNFSF20; TNFSF13B; B-cell Activating Factor.		
Amino Acid Sequence	HHHHHHHHHH AVQGPEETVT QDCLQLIADS ETPTIQKGSY TFVPWLLSFK RGSALLEEKEN KILVKETGYF FIYGQVLYTD KTYAMGH LIQ RKKVHVFGDE LSLVTLFRCI QNMPETLPNN SCYSAGIAKL EEGDELQLAI PRENAQISLD GDVTFFGALK LL		
Solubility	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.		
Formulation	Lyophilized from 1mg/ml solution in 20 mM PBS buffer pH 7 and 0.2 M NaCl.		

### Introduction

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.

### Biological Activity

The activity is determined by dose-dependent stimulation of proliferation B cell from Human PBMC. Cell proliferation was measured by MTT method. \*activity results may vary with PBMC donors. ED50 ? 50ng/ml

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

### Stability

LyophilizedBAFF although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$  . Upon reconstitutionBAFF should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$  . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

BAFF human Recombinant produced in *Nicotiana benthamiana* plant is a single glycosilated polypeptide chain containing 151 amino acids fragment(134-285).BAFF (C830H1277N223O242S5) is fused to a 10-His-tag at the N-terminal having the total molecular mass of 18-20kDa and purified by standard chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA