

# Certificate of Analysis



Recombinant Human BAFF

Catalog Number: 100-24

Lot Number: 1111-100-24

## Product Description

**Alternate Names:** TALL, BLyS, THANK      **Accession/Uniprot Number:** Q9Y275

**Description:** B cell-activating factor (BAFF), or B lymphocyte stimulator (BLyS), is a type II member of the tumor necrosis factor (TNF) superfamily. BAFF is expressed as a transmembrane protein on T cells, macrophages, and dendritic cells. The transmembrane domain of BAFF can also be cleaved to produce a soluble protein fragment. BAFF binds to the TNF receptors known as B cell maturation antigen (BCMA), transmembrane activator and CAML interactor (TACI), and BAFF receptor (BAFFR). BAFF is important for the survival and maturation of peripheral B cells. Human BAFF shows activity on mouse splenocytes.

**Source:** Genetically modified *E.coli*.

**Predicted MW:** Monomer, 18.5 kDa (163 amino acids)

**AA Sequence:** MHHHHHHLVP RAVQGPEETV TQDCLQLIAD SETPTIQKGS YTFVPWLLSF KRGSAL EEKE NKILVKETGY FFIYGQVLYT DKTYAMGHLI QRKKVHVFGD ELSLVTLFRC IQNMPETLPN NSCYSAGIAK LEEGDELQLA IPRENAQISL DGDVTFFGAL KLL

**Formulation:** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5

## Product Specifications

Specification	Method of Determination	Acceptance Criteria	Result
Purity	Reducing and Non-reducing SDS-PAGE	≥90%	>90%
Endotoxin	Kinetic LAL (50% confidence)	≤ 1 EUs/ug	0.99 EUs/ug

## Product Preparation and Storage

**Country of Origin:** USA      **Shipping:** Room temperature      **Storage Prior to Reconstitution:** -20°C

**Reconstitution:** Sterile water at 0.1 mg/mL      **Date of Recon.:** \_\_\_\_\_ **Initials:** \_\_\_\_\_

Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws.

**Expiration Date:** \_\_\_\_\_ **Date Received:** \_\_\_\_\_

12 months from date of receipt when stored at -20°C to -80°C as supplied.

1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

*Olivia Schneider, PhD 3-27-17*

Quality Control