

**TECHNICAL DATA SHEET**

# Recombinant Human BAFF (Carrier-free)

Catalog Number: 21-8136

**RPx-Pro™ Recombinant Protein**  
PRODUCT INFORMATION

**CONTENTS**

Recombinant Human BAFF (Carrier-free)

**DESCRIPTION**

BAFF, a member of the TNF family of ligands, is expressed in T cells, dendritic cells macrophages, monocytes. Most notably BAFF is important for proliferation, maintenance and survival of B cells although it also enhances T cell function. BAFF signals through three different TNF receptors TACI, BCMA and BAFF-R, with the latter being unique to B cell populations. BAFF levels are elevated in autoimmune models indicating dysregulation is involved in pathogenic states.

**MOLECULAR MASS**

This recombinant protein is 152 amino acid residues with a molecular weight of 17 kDa.

**AMINO ACID SEQUENCE**

AVQGPETVT QDCLQLIADS ETPTIQKGSY TFVPWLLSFK RGSAL EEKEN KILVKETGYF FIYGQVLYTD KTYAMGH LIQ RKKVHVFGDE  
LSLVTLFR CI QNMPETLPNN SCYSAGIAKL EEGDELQLAI PRENAQISLD GDVTFFGALK LL

**SOURCE**

E. Coli

**APPLICATIONS**

Bioassay

**PURITY**

95 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Content Verified by UV Spectroscopy and/or SDS-PAGE

**ENDOTOXIN LEVEL**

Endotoxin level is <0.1 ng/µg of protein (<1 EU/µg).

**AUTHENTICITY**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**CROSS REACTIVITY**

Mouse

**BIOACTIVITY**

Determined by a mouse splenocyte survival assay. The expected ED<sub>50</sub> for this effect is 0.5-2.0 µg/ml.

**RESEARCH AREAS**

Apoptosis; Immune System; Stem Cells & Differentiation; TNF Superfamily

**RECONSTITUTION**

See Certificate of Analysis (COA) for lot specific reconstitution information.

**REFERENCES**

Thompson JS, SA Bixler, F Qian, K Vora, ML Scott, TG Cachero, C Hession, P Schneider, ID Sizing, C Mullen, K Strauch, M Zafari, CD Benjamin, J Tschopp, JL Browning and C Ambrose 2001 Science 293: 2108-2111. Schneider P, F MacKay, V Steiner, K Hofmann, J-L Bodmer, N Holler, C Ambrose, P Lawtoin, S Bixler, H Acha-Orbea, D Valmori, P Romero, Cerner-Favre, R Zubler, JL Browning and J Tschopp 1999 JEM 189: 1747-1756. Mackay F, P Schneider, P Rennert and J Browning 2003 Ann Rev Immunol 21: 231-264. Batten M, J Groom, TG Cachero, F Quian, P Schneider, J Tschopp, JL Browning and F Mackay 2000 JEM 192: 1453-1465.

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