

TECHNICAL DATA SHEET

# Recombinant Human BAFF Receptor (Carrier-free)

Catalog Number: 21-7136

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

**CONTENTS**

Recombinant Human BAFF Receptor (Carrier-free)

**DESCRIPTION**

The B-cell activating factor (BAFF) receptor is a type III transmembrane protein belonging to the TNFR superfamily. It is expressed in spleen, lymph node and resting B-cells, with limited expression in activated B cells, resting CD4+ cells and peripheral blood leukocytes. BAFF/BAFFR activities are crucial to the survival and maturation of peripheral B cells. BAFF binding to BAFFR expressed on a subset of T cells has been shown to play a role in costimulating T cell activation.

**MOLECULAR MASS**

Recombinant Human BAFFR is 7.7 kDa. It consists of 76 amino acids, corresponding to the extracellular section of the full length BAFFR protein.

**AMINO ACID SEQUENCE**

MRRGPRSLRG RDAPAPTPCV PAECFDLLVR HCVACGLLRT PRPKPAGASS PAPRTALQPQ ESGAGAGEA ALPLPG

**SOURCE**

E. coli

**APPLICATIONS**

Bioassay

**PURITY**

95 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**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**

The expected ED<sub>50</sub> is 2.0-4.0 µg/ml, determined by its ability to block BAFF induced mouse splenocytes survival in the presence of 1.0 µg/ml of human soluble BAFF.

**RESEARCH AREAS**

TNF Superfamily, Immune System, Proliferation, Receptors

**RECONSTITUTION**

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

**REFERENCES**

Rolink AG and Melchers F. 2002. *Curr Opin Immunol.* 14: 266-275. Mackay F and Browning JL. 2002. *Nat Rev Immunol.* 2(7): 464-475. Laabi Y, Egle A and Strasser A. 2001. *Curr Biol.* 11: R1013-R1016. Mackay F and Ambrose C. 2003. *Cytokine Growth Factor Rev.* 2003. Jun-Aug;14(3-4): 311-324. He B, Chadburn A, Jou E, Schattner EJ, Knowles DM and Cerutti A. 2004. *J Immunol.* 172: 3268-3279.

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