

# Recombinant Human B Cell Activating Factor Receptor (rHuBAFF-R)

## ChemWhat Technical Data Sheet (TDS)

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<b>Catalog Number:</b>	103-04R
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 76 amino acids.
<b>Quantity:</b>	10µg/50µg/1000µg
<b>AA Sequence:</b>	MRRGPRSLRG RDAPAPTPCV PAECFDLLVR HCVACGLLRT PRPKPAGASS PAPRTALQPQ ESVGAGAGEA ALPLPG
<b>Purity:</b>	> 95 % by reduced SDS-PAGE analyses.
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by its ability to block BAFF induced mouse splenocyte survival is 1.0-5.0 µg/ml in the presence of 1.0 µg/ml of rHuBAFF.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 8.0, 500 mM NaCl.
<b>Endotoxin:</b>	Less than 1 EU/µg of rHuBAFF-R as determined by LAL method.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	<b>ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.</b>

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### ***Human B Cell Activating Factor Receptor***

B Cell Activating Factor Receptor (BAFF-R), also named tumor necrosis factor receptor superfamily member 13C, is a member of the TNFR superfamily. It is highly expressed in spleen, lymph node, and resting B cells and to some extent in activated B cells, resting CD4<sup>+</sup> cells and peripheral blood leukocytes. BAFF receptor is a type III transmembrane protein containing a single extracellular phenylalanine-rich domain and binds with high specificity to BAFF (TNFSF13B). It enhances B-cell survival in vitro and is a regulator of the peripheral B-cell population. BAFF receptor/BAFF signaling plays a critical role in B cell survival and maturation.