

## Product Datasheet

### RecombinantBAFF,Human (orb1494760)

<b>Catalog Number</b>	orb1494760
<b>Category</b>	Proteins
<b>Description</b>	<p>B-cell activating factor, also known as BAFF, TALL-1, TNAK, and zTNF4, is a member of theTNF ligand superfamily designated TNFSF13B. Produced by macrophages, dendritic cells, and T lymphocytes, BAFF promotes the survival of B cells and is essential for B cell maturation. BAFF binds to three TNF receptor superfamily members: B-cell maturation antigen (BCMA/TNFRSF17), transmembrane activator and calcium-modulator and cyclophilin ligand interactor (TACI/TNFRSF13B) and BAFF receptor (BAFF R/BR3/TNFRSF 13C). These receptors are type III transmembrane proteins lacking a signal peptide. Whereas TACI and BCMA bind BAFF and another TNF superfamily ligand, APRIL(a proliferation-inducing ligand), BAFF R selectively binds BAFF. The BAFF R extracellular domain lacks the TNF receptor canonical cysteine-rich domain (CRD) and contains only a partial CRD with four cysteine residues. Human and mouse BAFF R share 56% aa sequence identity. BAFF R is highly expressed in spleen, lymph node and resting B cells. It is also expressed at lower levels in activated B cell, resting CD4+ T cells, thymus and peripheral blood leukocytes.</p>
<b>Form/Appearance</b>	Lyophilized after extensive dialysis against PBS.
<b>Buffer/Preservatives</b>	Lyophilized after extensive dialysis against PBS.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<b>Purification</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<b>Protein Sequence</b>	AVQGPEETVTQDCLQLIADSETPTIQKGSYTFVPWLLSFKRGSALEEKENKILVKETGYFFIYG QVLYTDKTYAMGHLIQ RKKVHVFGDELSTLFRCIQNMPETLPNNSCYSAGIAKLEEGDELQLAIPRENAQISLDGDV TFFGALKLL
<b>MW</b>	17kDa, observed by non-reducing SDS-PAGE.

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<b>Application notes</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxins</b>	0.2 EU/µg, determined by LAL method.
<b>Source</b>	CHO
<b>Biological Activity</b>	ED505.0 x 10 <sup>4</sup> units/mg.
<b>Storage</b>	Lyophilized recombinant human B-Cell Activating Factor (BAFF) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rh-BAFF should be stable up to 1 week at 4°C or up to 2 months at -20°C.
<b>Note</b>	For research use only
<b>Expiration Date</b>	6 months from date of receipt.

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