

Human BAFF/TNFSF13B (hBAFF)

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MW (kDa):	UniProt ID:	Entrez-Gene Id:
16	#Q9Y275	10673
Background		
BAFF, a member of the TNF superfamily of proteins, is a homotrimeric transmembrane protein, which is cleaved to produce a soluble cytokine (1). BAFF may also further oligomerize into 60-mer structures (1). BAFF is expressed by neutrophils, macrophages, dendritic cells, activated T cells, and epithelial cells (1,2). BAFF plays a key role in B cell development, survival, and activation (1,3,4). BAFF binds to three distinct receptors, BAFF-R, TACI, and BCMA (1). These receptors are differentially expressed during B cell development and among B cell subsets (1,2,4). While BAFF-R and BCMA bind to the homotrimeric form of BAFF, TACI only binds to membrane bound or higher order BAFF structures (1). The BAFF/ BAFF-R interaction activates both canonical and non-canonical NF- κ B pathways, PI3K/Akt, and mTOR (2,4). Activation of the noncanonical NF- κ B pathway via BAFF-R is negatively regulated by TRAF3 (5). Elevated levels of BAFF may exacerbate many autoimmune disorders, making it an attractive therapeutic target (2).		
Endotoxin		
Less than 0.01 ng endotoxin/1 μ g hBAFF.		
Purity		
>98% as determined by SDS-PAGE of 6 μ g reduced (+) and non-reduced (-) recombinant hBAFF. All lots are greater than 98% pure.		
Source / Purification		
Recombinant human BAFF (hBAFF) Ala134-Leu285 (Accession #NP_006564) was expressed in human 293 cells at Cell Signaling Technology.		
Bioactivity		
The bioactivity of recombinant hBAFF was determined in a cell proliferation assay using mouse splenic B cells. The ED ₅₀ of each lot is between 0.5-2 ng/ml.		
Background References		
<ol style="list-style-type: none"> 1. Mackay, F. and Schneider, P. (2009) <i>Nat Rev Immunol</i> 9, 491-502. 2. Moisini, I. and Davidson, A. (2009) <i>Clin Exp Immunol</i> 158, 155-63. 3. Schiemann, B. et al. (2001) <i>Science</i> 293, 2111-4. 4. Khan, W.N. (2009) <i>J Immunol</i> 183, 3561-7. 5. Gardam, S. et al. (2008) <i>Immunity</i> 28, 391-401. 		

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