

Datasheet for 009-001-U65-0020**rHuman BAFF - Protein****Overview**

Description:	Human BAFF - Recombinant Protein - 009-001-U65-0020
Item No.:	009-001-U65-0020
Size:	20 µg
Applications:	SDS-PAGE, Cellular Assay
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Human B cell Activating Factor (BAFF), is a Type II member of the TNF superfamily. Although it is typically a transmembrane protein expressed on T cells, macrophages and dendritic cells, it can also be cleaved in the extracellular region to produce a soluble form detectable in the serum. BAFF is thought to be important for the survival and maturation of peripheral B cells. BAFF initiates signaling through three receptors with human BAFF having activity on mouse splenocytes. Recombinant human BAFF is a non-glycosylated protein containing a N terminal His tag, a thrombin cut site and 153 amino acids of the TNF-like domain. This protein has a total molecular weight of 18.5 kDa.
Synonyms:	THANK, B lymphocyte stimulator (BLyS), B-cell activating factor, TNF- and APOL-related leukocyte expressed ligand 1 (TALL-1), CD_antigen=CD257
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	TNFSF13B
Purity/Specificity:	BAFF purity was determined to be greater than 90% as determined by analysis by HPLC, UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-PAGE.
Relevant Links:	• UniProtKB - Q9Y275

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Cellular Assay (Based on references)
Application Note:	Human BAFF Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-BAFF in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein. Biologic Activity: The activity is determined by a RPMI-8226 cell survival assay in the presence of 0.2 μ M DEX and is typically less than 30 ng/mL.

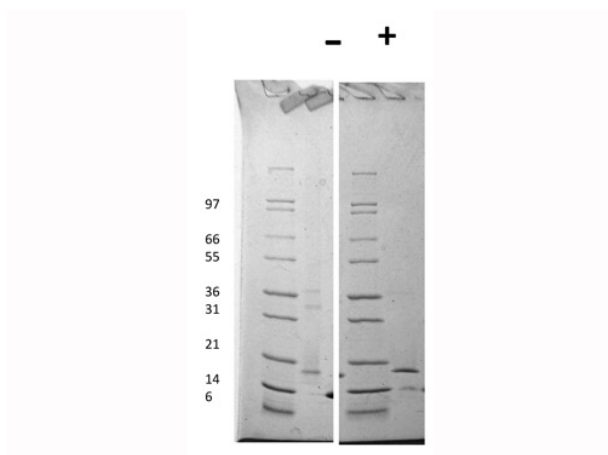
Formulation

Physical State:	Lyophilized
Buffer:	0.01 M Sodium Phosphate, pH 7.5
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	20 μ l (20-200 μ l)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

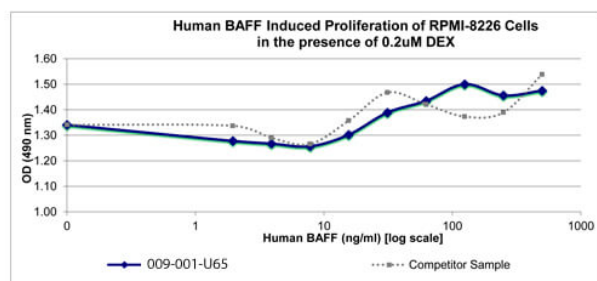
Shipping Condition:	Ambient
Storage Condition:	Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

SDS-PAGE of Human BAFF Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 μ g Human BAFF in non-reducing conditions (-). Lane 3: Molecular weight marker. Lane 4: 1 μ g Human BAFF in reducing conditions (+). Human BAFF has a predicted MW of 17 kDa.



SDS-PAGE

Bioactivity of Human BAFF Recombinant Protein. RPMI-8226 cells were cultured with 0 to 500 ng/mL Human BAFF in the presence of 0.2 μ M DEX. Cell proliferation was measured after 94 hours and the linear portion of the curve was used to calculate the ED50. The ED50 of Human BAFF is 23-35 ng/mL. This value is comparable to the competitor sample.

Disclaimer

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