



Recombinant Human BAFF
(B Cell Activating Factor)

Catalog Number: 100-24
Accession Number: Q9Y275

Specifications and Uses:

Alternate Names: TALL, BLyS, THANK

Description:

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.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human BAFF is lyophilized with 10 mM Na₂PO₄, pH 7.5

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically ≥ 90%) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:

The activity is determined by a RPMI-8226 cell survival assay in the presence of 0.2 μM DEX and is typically less than 30 ng/mL.

AA Sequence:

MHHHHHHLVPR MAVQGPEETV TQDCLQLIAD SETPTIQKGS YTFVPWLLSF KRGSAL EEKE NKILVKETGY
FFIYGQVLYT DKTYAMGHLI QRKKVHVFGD ELSLVTLFRC IQNMPETLPN NSCYSAGIAK LEEGDELQLA
IPRENAQISL DGDVTFFGAL KLL

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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