

GFH24 Recombinant Human BAFF

Description

B cell Activating Factor (BAFF) is a type II member of the Tumor Necrosis Factor (TNF) superfamily. BAFF is expressed as a transmembrane protein on T cells, macrophages, and dendritic cells. The transmembrane domain of BAFF can also be cleaved to produce a soluble protein fragment. BAFF binds to the TNF receptors known as B cell maturation antigen (BCMA), transmembrane activator and CAM1 interactor (TACI), and BAFF receptor (BAFFR). BAFF is important for the survival and maturation of peripheral B cells. Human BAFF shows activity on mouse splenocytes.

Length	163 aa
Molecular Weight	18.5 kDa
Source	E. coli
Accession Number	Q9Y275
Purity	≥90% determined by reducing and non-reducing SDS-PAGE

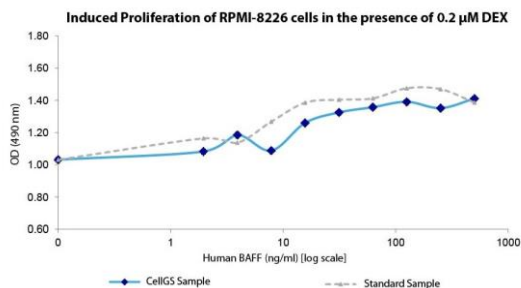
Specifications

Alternative Names	B cell Activating Factor, TALL, BLyS, B lymphocyte stimulator, Tumor necrosis factor ligand superfamily member 13B, THANK
Biological Activity	Human BAFF is fully biologically active when compared to standards. The ED50 is determined by a RPMI-8226 cell survival assay in the presence of 0.2 μM DEX and it is typically less than 30 ng/ml. This corresponds to a specific activity of 6.7 x 10 ⁴ units/mg.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
AA Sequence	MHHHHHHLVP RAVQGPEETV TQDCLQLIAD SETPTIQKGS YTFVPWLLSF KRGSALLEEKE NKILVKETGY FFIYGQVLYT DKTYAMGHLI QRKKVHVFGD ELSLVTLFRC IQNMPETLPN NSCYSAGIAK LEEGDELQLA IPRENAQISL DGDVTFFGAL KLL

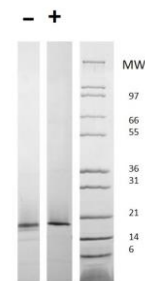
Preparation and Storage

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 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced proliferation assay for Human BAFF. Cell proliferation was measured to calculate the ED50, which is as expected less than 30 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human BAFF has a predicted Mw of 18.5 kDa.