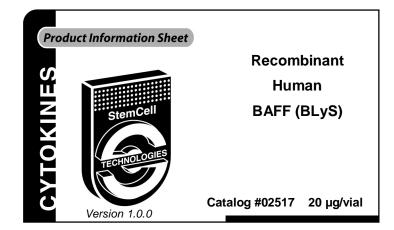
PRODUCT DESCRIPTION:

Human BAFF (B cell Activating Factor) is a ligand in the tumor necrosis factor (TNF) family and is also known as B Lymphocyte Stimulator (BLyS). It binds to several receptors including the BAFF receptor, BCMA and TACI, the latter two are shared with the ligand APRIL. It is known as a co-stimulator of B cell proliferation and has been described together with APRIL as important for the proliferation of human embryonic stem cells.¹ Recombinant Human BAFF is a single, non-glycosylated polypeptide chain containing 153 amino acids and has a MW of 17.0 kDa.



SOURCE:

Expressed in E. Coli.

PURITY:

Greater than 95% as determined by SDS-PAGE and HPLC analyses. The endotoxin level is less than 0.1 ng/µg of BAFF.

FORMULATION:

Lyophilized from 0.3X phosphate buffered saline at pH 7.5.

RECONSTITUTION:

Centrifuge vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/mL.

STABILITY AND STORAGE:

Lyophilized BAFF is best-stored desiccated below 0°C. Reconstituted BAFF should be stored in working aliquots at -20°C.

Avoid repeated freezing and thawing.

ACTIVITY:

The ED₅₀ of BAFF, as determined by the dose-dependant stimulation of IL-8 production by human PBMC, is generally less than 10 ng/mL. Results may vary with PBMC donors.

REFERENCES:

1. Lu J, Hou R, Booth CJ, Yang SH, Snyder M. Defined culture conditions of human embryonic stem cells. Proc Natl Acad Sci USA 103(15):5688-93, 2006

See Material Safety Data Sheet for more information.

THIS REAGENT IS FOR RESEARCH ONLY. IT IS NOT TO BE ADMINISTERED TO HUMANS.

StemCell Technologies

In North America Tel: 1.604.877.0713 Fax: 1.604.877.0704 Toll Free Tel: 1.800.667.0322 Toll Free Fax: 1.800.567.2899 e-mail: info@stemcell.com www.stemcell.com In the United Kingdom Tel: +44.(0).20.7691.3561 Fax: +33.(0).4.76.18.99.63 Toll Free within United Kingdom: Tel: 0800.731.27.14 Fax: 0800.731.27.13 e-mail: info@stemcellgb.com In Europe Tel: +33.(0).4.76.04.75.30 Fax: +33.(0).4.76.18.99.63 e-mail: info@stemcellfrance.com Revised: June 2007

