83103 Avenue 48, Ste.1B #204
Coachella, CA 92236 USA
Phone : +1.6268339877
Email : info@cali-bio.com

California Bioscience

Product Datasheet

Product Name	B-cell Activating Factor Receptor Human Recombinant
Cata No	CB500331
Source	*Escherichia Coli.*
Synonyms	TNFRSF13C, CD268, BAFF-R, MGC138235, B cell-activating factor receptor.

Description

B cell-activating factor (BAFF) enhances B-cell survival in vitro and is a regulator of the peripheral B-cell population. Overexpression of Baff in mice results in mature B-cell hyperplasia and symptoms of systemic lupus erythematosus (SLE). Also, some SLE patients have increased levels of BAFF in serum. Therefore, it has been proposed that abnormally high levels of BAFF may contribute to the pathogenesis of autoimmune diseases by enhancing the survival of autoreactive B cells. The protein encoded by this gene is a receptor for BAFF and is a type III transmembrane protein containing a single extracellular cysteine-rich domain. It is thought that this receptor is the principal receptor required for BAFF-mediated mature B-cell survival.

B Lymphocyte Stimulator Receptor Human Recombinant extracellular produced in E.Coli is a single, non-glycosylated polypeptide chain containing 76 amino acids and having a molecular mass of 7.7 kDa.
The BAFF-R is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

Determined by its ability to block BAFF induced mouse splenocyte survival. The expected ED_{50} for this effect is 1.0-5.0 μg/ml in the presence of 1.0μg/ml of human soluble BAFF.

Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

Lyophilized from a 0.2μm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 8.0, 500mM NaCl.

Stability

Lyophilized BAFF-R although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution B Lymphocyte Stimulator Receptor should be stored at 4℃ between 2-7 days and for future use below -18℃.
Please prevent freeze-thaw cycles.

Sequence

MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVA
CGLLRTPRPKPAG
ASSPAPRTALQPQESVGAGAGEAALPLPG

*** For Non-Clinical Research Use Only ***