GenScript Make Research Easy

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DATASHEET

BAFF, Human

Cat. No.: Z02976

Product Introduction

Species	Human
Protein Construction	BAFF (Ala134-Leu285) Accession # Q9Y275
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/µg of protein by gel clotting method
Biological Activity	ED_{50} < 20.0 ng/ml, determined by dose-dependent mitogenic activity on human RPMI 8226 cells, corresponding to a specific activity of > 5.0 x 10 ⁴ units/mg.
Expression System	СНО
Apparent Molecular Weight	~17 kDa, on SDS-PAGE under non-reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μ g/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples





ED₅₀< 20 ng/ml, determined by dose-dependent mitogenic activity on human RPMI 8226 cells, corresponding to a specific activity of >5.0 x 10⁴units/mg.

Background

Target Background : B-cell activating factor, also known as BAFF, TALL-1, TNAK, and zTNF4, is a member of theTNF ligand superfamily designated TNFSF13B. Produced by macrophages, dendritic cells, and T lymphocytes, BAFF promotes the survival of B cells and is essential for B cell maturation. BAFF binds to three TNF receptor superfamily members: B-cell maturation antigen (BCMA/TNFRSF17), transmembrane activator and calcium-modulator and cyclophilin ligand interactor (TACI/TNFRSF13B) and BAFF receptor (BAFF R/BR3/TNFRSF 13C). These receptors are type III transmembrane proteins lacking a signal peptide. Whereas TACI and BCMA bind BAFF and another TNF superfamily ligand, APRIL(a proliferation-inducing ligand), BAFF R selectively binds BAFF. The BAFF R extracellular domain lacks the TNF receptor canonical cysteine-rich domain (CRD) and contains only a partial CRD with four cysteine residues. Human and mouse BAFF R share 56% aa sequence identity. BAFF R is highly expressed in spleen, lymph node and resting B cells. It is also expressed at lower levels in activated B cell, resting CD4⁺ T cells, thymus and peripheral blood leukocytes.

Synonyms : BLYS; CD257; TALL1; THANK; ZTNF4; TALL-1; TNFSF20; TNFSF13B; B-cell Activating Factor

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.