Recombinant Mouse TNFSF13B/BAFF/CD257 Protein

Catalog No.: RP01909

Sequence Information

Species	Gene ID
Mouse	24099
Swiss Prot	**Tags**
Q9WU72	N-his&hFC

Synonyms

Tnfsf13b, Baff, Tumor necrosis factor ligand superfamily member 13B, B-cell-activating factor, BAFF, CD257, Cleaved into: Tumor necrosis factor ligand superfamily member 13b, membrane form, Tumor necrosis factor ligand superfamily member 13b, soluble form

Product Information

Source	Purification
HEK293 cells	≥ 85% as determined by SDS-PAGE.
Calculated MW	**Observed MW**
47.41 kDa	50-60kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

B-cell activating factor (BAFF), also known as BLyS, TALL-1, THANK, and TNFSF13B, is a 32 kDa transmembrane glycoprotein in the TNF ligand superfamily. It is involved in multiple aspects of immune system regulation, particularly towards B cells . Mature mouse BAFF consists of a 47 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 241 aa extracellular domain (ECD) with a stalk region and one TNF-like domain . Within aa 127-309 of the ECD, mouse BAFF shares 72% aa sequence identity with human BAFF. It can be expressed as a homotrimer or as a heteromer in association with the related TNFSF member APRIL . A 18 kDa fragment containing the TNF-like domain can be released by proteolysis between Arg126 and Ala127. Soluble BAFF is stored intracellularly in neutrophils and released upon inflammatory stimulation . deltaBAFF can form heteromers with BAFF and negatively regulates BAFF function . BAFF is produced by many hematopoietic cell types including by monocytes, macrophages, neutrophils, dendritic cells, and T cells and also by adipocytes. Both BAFF and APRIL are functional ligands for the TNF receptor superfamily members BCMA and TACI, and BAFF additionally binds and signals through BAFF R. All three receptors are primarily expressed by B cells . BAFF plays a critical role in the development and survival of B lineage cells . Mice that over-express BAFF exhibit elevated B cell numbers, increased formati of germinal centers, and symptoms of autoimmunity. Soluble BAFF is elevated in B cell malignancies, autoimmunity, and other immune disorders . In addition, BAFF costimulates T cell activation, promotes a Th1 biased immune response, and promotes the expansion of Treg cells . BAFF also promotes monocyte survival, proinflammatory cytokine secretion, and differentiation to macrophages .

Basic Information

Description

Recombinant Mouse TNFSF13B/BAFF/CD257 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala127-Leu309) of Mouse TNFSF13B/BAFF/CD257 (Accession #NP_296371.1) fused with a His and a hFc tag at the N-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

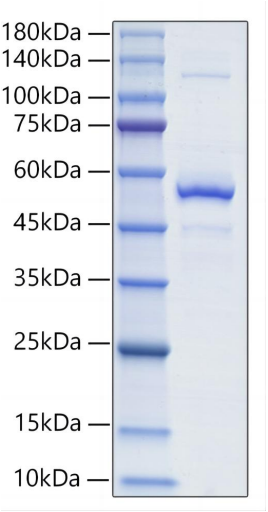
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Mouse TNFSF13B/BAFF/CD257 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.