HB220301

Recombinant Human B cell Activating Factor Rececptor/TNFRSF13C (Human BAFF Receptor/TNFRSF13C)

Product Information

Product Name	Cat#	Size
Recombinant Human B cell Activating Factor Rececptor/TNFRSF13C (Human BAFF Receptor/TNFRSF13C)	90605ES10	10 μg
	90605ES60	100 μg
	90605ES78	500 μg

Product Description

BAFF Receptor (BAFFR), a member of the TNFR superfamily, is highly expressed in the spleen, lymph nodes, and resting B cells, and to some extent in activated B cells, resting CD4+ cells and peripheral blood leukocytes. BAFFR is a type III transmembrane protein that binds with high specificity to BAFF (TNFSF13B). BAFFR/BAFF signaling plays a critical role in B cell survival and maturation. 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, in resting CD4+ T cells, in thymus and peripheral blood leukocytes. BAFF knockout mice lack mature B cells. Similarly, A/WySnJ mice that are defective in BAFF-R intracellular signaling also lack mature B cells, suggesting that BAFF R is the critical receptor for BAFF during B lymphopoiesis. In contrast, BCMA- or TACI-deficient mice have no major defect in B-cell development. While the function of BCMA is not defined, TACI has been shown to control B-cell homeostasis and T-cell-independent immune responses.

Product Properties

Synonyms	BAFFR, TNFRSF13C
Accession	Q96RJ3
GeneID	115650
Source	E.coli-derived Human B cell Activating Factor Rececptor protein,Met1-Gly76,with an N-terminal Met
Molecular Weight	Approximately 7.8 kDa
AA Sequence	MRRGPRSLRG RDAPAPTPCV PAECFDLLVR HCVACGLLRT PRPKPAGASS PAPRTALQPQ ESVGAGAGEA ALPLPG
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED_{50} as determined by its ability to block BAFF induced mouse splenocyte survival is 1.0-5.0 μg/ml in the presence of 1.0 μg/ml of rHuBAFF.
Endotoxin	< 1 EU/μg of protein as determined by LAL method.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 8.0, 500 mM NaCl.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20℃ to -80℃ for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.