

Recombinant Human B cell Activating Factor Receptor/TNFRSF13C

#R00081

Size: 10 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

B Cell Activating Factor Receptor (BAFF-R), also named tumor necrosis factor receptor superfamily member 13C, is a member of the TNFR superfamily. It is highly expressed in spleen, lymph node, and resting B cells and to some extent in activated B cells, resting CD4+ cells and peripheral blood leukocytes. BAFF receptor is a type III transmembrane protein containing a single extracellular phenylalanine-rich domain and binds with high specificity to BAFF (TNFSF13B). It enhances B-cell survival in vitro and is a regulator of the peripheral B-cell population. BAFF receptor/BAFF signaling plays a critical role in B cell survival and maturation.

AA Sequence

MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACG
LLRTPRPKPAGASSPAPRTALQPQESVGAGAGEAAL
PLPG

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.

Product Specification

Synonyms	BAFFR, TNFRSF13C
Accession	Q96RJ3
GeneID	115650
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 76 amino acids.
Purity	> 95 % by reduced SDS-PAGE 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.
Physical	Sterile Filtered White Lyophilized

Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 8.0, 500 mM NaCl.
Endotoxin	Less than 1 EU/μg of rHuBAFF-R as determined by LAL method.