

BAFF/TNFSF13B Protein, Human (HEK293, His-Flag)

Cat. No.:	HY-P78384
Synonyms:	BAFF; BlyS; CD257; TNFSF13B; TNFSF20; DTL; TALL1; TALL-1delta BAFF; TALL1Delta4 BAFF; THANK; ZTNF4; TALL-1
Species:	Human
Source:	HEK293
Accession:	Q9Y275 (T141-L285)
Gene ID:	10673
Molecular Weight:	53-60 kDa

PROPERTIES

Biological Activity	<ol style="list-style-type: none"> 1. Immobilized Human BAFF Trimer, His Tag at 0.5 µg/mL (100 µl/well) on the plate. Dose response curve for Human BAFFR, hFc Tag with the EC₅₀ of ≤0.14 µg/mL determined by ELISA. 2. Immobilized Human BAFF Trimer, His Tag at 1 µg/mL (100 µl/well) on the plate. Dose response curve for Human TACI, hFc Tag with the EC₅₀ of ≤8 ng/mL determined by ELISA. 3. Immobilized Human BAFF Trimer, His Tag at 2 µg/mL (100 µl/well) on the plate. Dose response curve for Human BAFFR, hFc Tag with the EC₅₀ of ≤ 60 ng/mL determined by ELISA.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>BAFF/TNFSF13B protein, a cytokine, binds to TNFRSF13B/TACI and TNFRSF17/BCMA, forming a key ligand-receptor pathway alongside TNFSF13/APRIL. Together, these interactions play a crucial role in stimulating B- and T-cell function and regulating humoral immunity. Notably, a third B-cell-specific receptor, BAFFR/BR3, is involved in promoting the survival of mature B-cells and facilitating the B-cell response. This intricate network underscores the significance of BAFF/TNFSF13B in orchestrating immune responses. Additionally, isoform 2 of BAFF/TNFSF13B appears to exert a regulatory role by inhibiting the secretion and bioactivity of isoform 1. The dynamic interplay between these isoforms further contributes to the nuanced control of BAFF/TNFSF13B-mediated immune processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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