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

Cat. No.:	HY-P78385
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:	Approximately 74.9 kDa

PROPERTIES

Biological Activity	Immobilized Human BAFF (Trimer) , hFc Tag at 5μg/ml (100μl/Well) on the plate. Dose response curve for Human BAFFR, His Tag with the EC_{50} of 2.3μg/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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	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.

Caution: Product has not been fully validated for medical applications. For research use only.

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