

## Animal-Free BAFF/TNFSF13B Protein, Human (His)

<b>Cat. No.:</b>	HY-P700017AF
<b>Synonyms:</b>	TNFSF13B; BLYS; CD257; DTL; TALL-1; TALL1; THANK; TNFSF20; TNLG7A; ZTNF4
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q9Y275 (134-285)
<b>Gene ID:</b>	10673
<b>Molecular Weight:</b>	Approximately 17.98 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           M A V Q G P E E T V    T Q D C L Q L I A D    S E T P T I Q K G S    Y T F V P W L L S F            K R G S A L E E K E    N K I L V K E T G Y    F F I Y G Q V L Y T    D K T Y A M G H L I            Q R K K V H V F G D    E L S L V T L F R C    I Q N M P E T L P N    N S C Y S A G I A K            L E E G D E L Q L A    I P R E N A Q I S L    D G D V T F F G A L    K L L         </p>
<b>Biological Activity</b>	Measure by its ability to induce IL-8 secretion in human PBMCs. The ED <sub>50</sub> for this effect is <0.5 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a solution containing 1X PBS, pH 8.0.
<b>Endotoxin Level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<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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