Human APRIL/TNFSF13 Trimer Protein

Cat. No. APR-HM110

Description

Source	Recombinant Human APRIL/TNFSF13 Trimer Protein is expressed from HEK293 with His tag and Flag tag at the N-Terminus.
	It contains Lys112-Leu250 trimer design.
Accession	O75888-1
Molecular Weight	The protein has a predicted MW of 49.9 kDa. Due to glycosylation, the protein migrates to 52-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

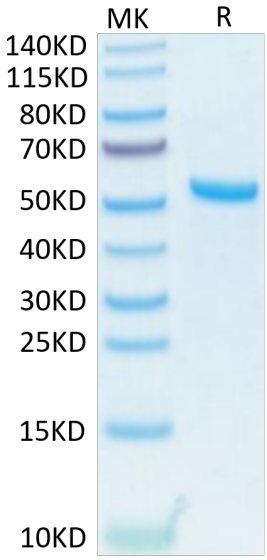
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The APRIL (a proliferation-inducing ligand), also known as TNFSF13, TALL2, TRDL1, and CD256, is a member of the TNF ligand superfamily. Both APRIL and its close relative BAFF bind and signal through the TNF superfamily receptors TACI and BCMA, while BAFF additionally functions through BAFF R.

Assay Data

Bis-Tris PAGE



Human APRIL Trimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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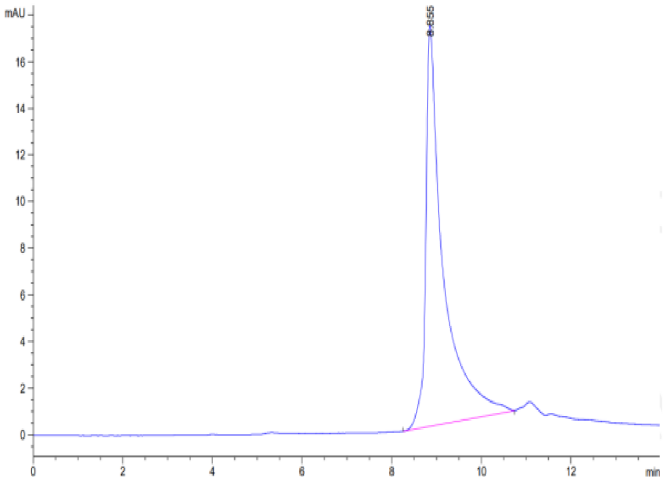
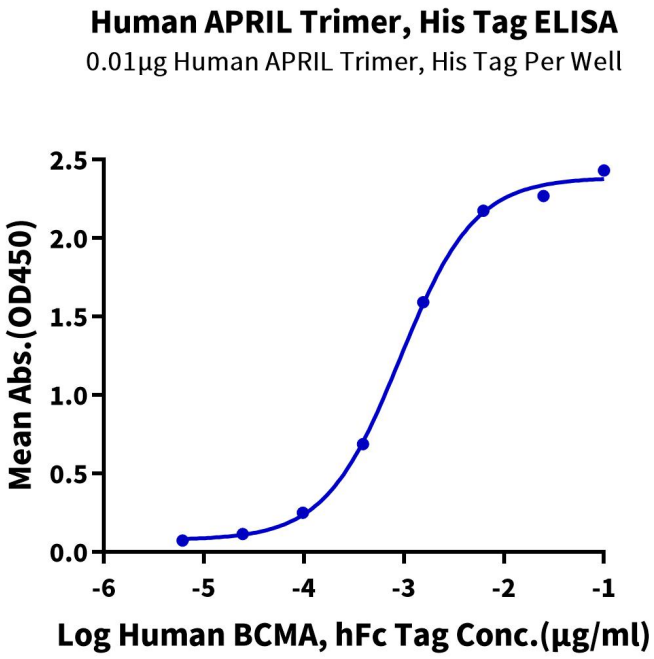
Assay Data



The purity of Human APRIL Trimer is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human APRIL Trimer, His Tag at 0.1 μg/ml (100 μl/well) on the plate. Dose response curve for Human BCMA, hFc Tag with the EC50 of 0.9 ng/ml determined by ELISA (QC Test).

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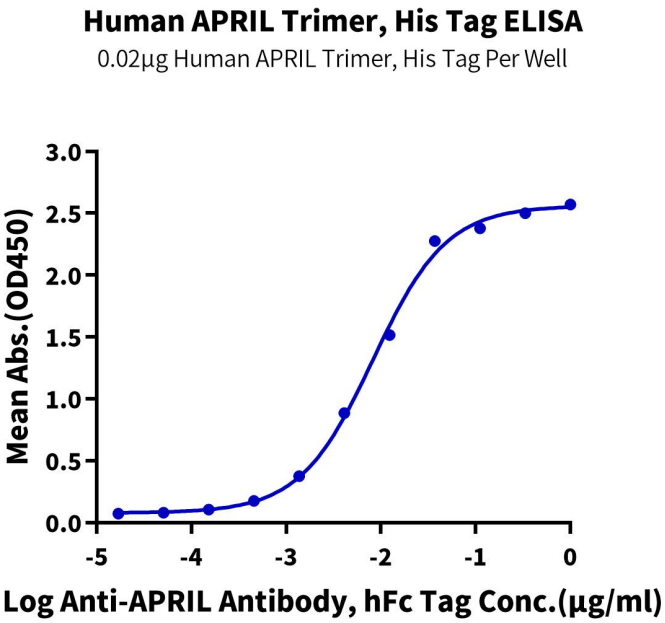
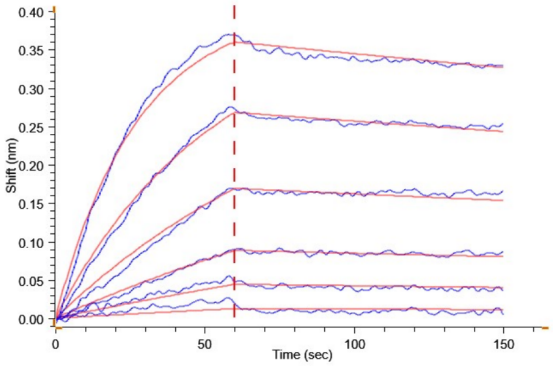
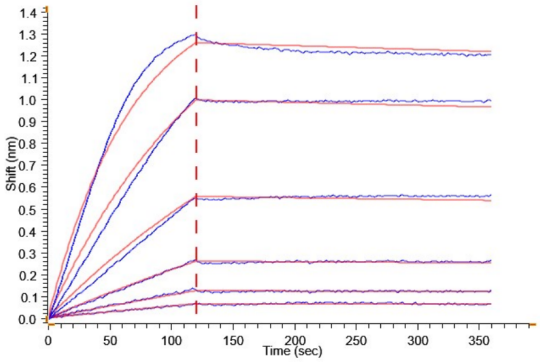


Immobilized Human APRIL Trimer, His Tag at 0.2μg/ml (100μl/well) on the plate. Dose response curve for Anti-APRIL Antibody, hFc Tag with the EC50 of 8.3ng/ml determined by ELISA.

BLI Data



Loaded Human TACI, hFc Tag on ProA-Biosensor can bind Human APRIL (Trimer), His-Flag Tag with an affinity constant of 0.76nM as determined in BLI assay .



Loaded Human BCMA, hFc Tag on ProA-Biosensor can bind Human APRIL (Trimer), His Tag with an affinity constant of 0.24 nM as determined in BLI assay .

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