

Human ADAM8 Protein, Ultra Low Endotoxin

Cat. No. ADM-HM108-UL

Description

Source	Recombinant Human ADAM8 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ile17-Pro655.
Accession	P78325
Molecular Weight	The protein has a predicted MW of 70.9 kDa. The protein migrates to 55-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 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 0.22µm filtered solution in 50mM Tris, 150mM NaCl (pH 7.5). 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

A Disintegrin And Metalloproteinase (ADAM) proteases constitute a family of multifunctional, membrane-bound proteins with traditional sheddase functions. Their protumorigenic potential has been attributed to both, essential (ADAM10 and ADAM17) and 'dispensable' ADAM proteases (ADAM8, 9, 12, 15, and 19). Of specific interest in this review is the ADAM proteinase ADAM8 that has been identified as a significant player in aggressive malignancies including breast, pancreatic, and brain cancer.

Assay Data

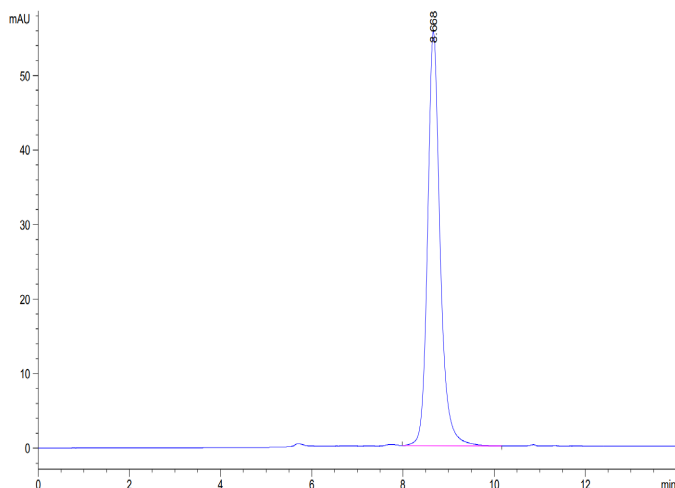
Bis-Tris PAGE



Human ADAM8 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

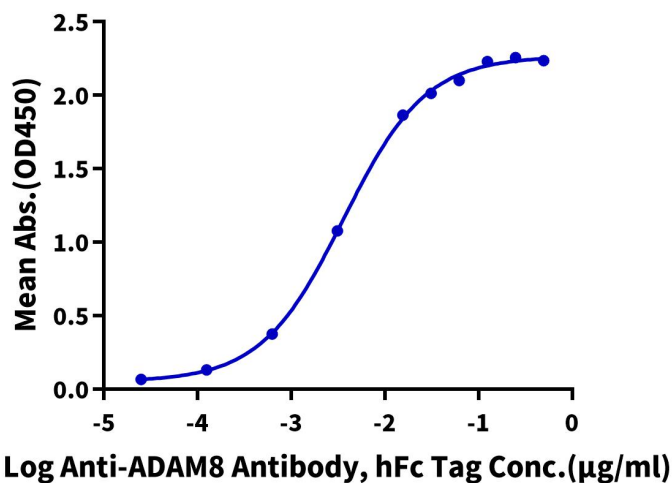


The purity of Human ADAM8 is greater than 95% as determined by SEC-HPLC.

ELISA Data

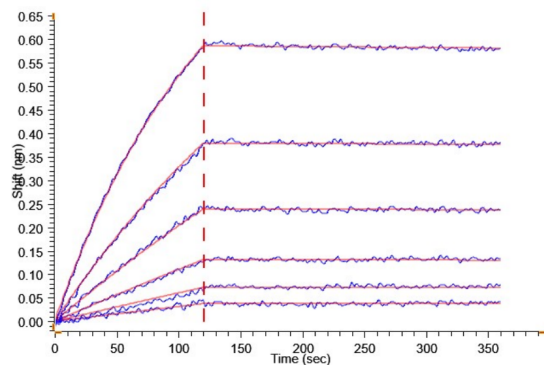
Human ADAM8, His Tag ELISA

0.1 µg Human ADAM8, His Tag Per Well



Immobilized Human ADAM8, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-ADAM8 Antibody, hFc Tag with the EC50 of 3.6 ng/ml determined by ELISA.

BLI Data



Loaded Anti-ADAM8 Ab., hFc Tag on ProA-Biosensor can bind Human ADAM8, His Tag with an affinity constant of 0.87 nM as determined in BLI assay .

Bioactivity Data

Measured by its ability to cleave a fluorogenic peptide substrate Mca-PLAQAV-Dpa-RSSSR-NH2. The specific activity is >1 pmol/min/µg.