

ADAM8/CD156a Protein, Human, Recombinant (His)

General Information

Synonyms:	CD156;MS2;CD156a;ADAM metalloproteinase domain 8
Protein Construction:	A DNA sequence encoding the human ADAM8 (AAI15405.1) (Met1-Ser653) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Ile 17
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q14C66
Molecular Weight:	71 kDa (predicted); 55-70 kDa (Reducing conditions)

QC Testing

Biological Activity:	Measured by its ability to cleave a fluorogenic peptide substrate Mca-PLAQAV-Dpa-RSSSR-NH ₂ . The specific activity is >1 pmol/min/μg 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 EC ₅₀ of 3.6 ng/ml determined by ELISA.
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 12.5 mM Tris, 5 mM CaCl ₂ , 75 mM NaCl, 50% glycerol, pH 7.5.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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.

Reference

- Yoshiyama K.,et al.,(1997), CD156 (human ADAM8): expression, primary amino acid sequence, and gene location. Genomics 41:56-62.
- Ota T.,et al., (2004), Complete sequencing and characterization of 21,243 full-length human cDNAs.Nat. Genet. 36: 40-45.
- Deloukas P.,et al.,(2004), The DNA sequence and comparative analysis of human chromosome 10.Nature 429:375-381.

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