

ADAM8/CD156a Protein, Mouse, Recombinant (His)

General Information

Synonyms:	CD156a;MGC134985;ADAM 8;Ms2;Adam8
Protein Construction:	Pro17-Ser658
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q05910
Molecular Weight:	71.7 kDa (predicted). 55-70 kDa (Reducing condition)

QC Testing

Biological Activity:	Measured by its ability to cleave a fluorogenic peptide substrate Mca-PLAQAV-Dpa-RSSSR-NH ₂ . The specific activity is > 0.4 pmol/min/μg.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22μm filtered solution in 20mM Tris, 5mM CaCl ₂ , 75mM NaCl, 50% Glycerol (pH 7.5).

Preparation and Storage

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry 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

Conrad C, et al. ADAM8 in invasive cancers: links to tumor progression, metastasis, and chemoresistance. Clin Sci (Lond). 2019 Jan 11;133(1):83-99. doi: 10.1042/CS20180906. PMID: 30635388.

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