

Recombinant Mouse ADAM17 protein (His tag) ab207138

1 Image

Description	
Product name	Recombinant Mouse ADAM17 protein (His tag)
Purity	> 90 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	<u>Q9Z0F8</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	PRPPEEAGSGSHPRLEKLDSSLSDYDILSLANIQQHSIRKR DLQSATHLE TLLTFSALKRHFKLYLTSSTERFSQNLRVVVVDGKEESEY SVKWQNFFSG HVVGEPSRVLAHIGDDDTVIRINTDGAEYNVEPLWRFVN DTKDKRMLVY KSEDIKDFSRLQSPKVCGYLNADSEELLPKGLIDREPSEE FVRRVKRRAE PNPLKNTCKLLVVADHRFYKYMGRGEESTTTNYLIELIDRV DDIYRNTSW DNAGFKGYGVQIEQIRILKSPQEVKPGERHFNMAKSFPNE EKDAWDVKML LEQFSFDIAEEASKVCLAHLFTYQDFDMGTLGLAYVGSPPR ANSHGGVCPK AYYNPTVKKNYLNGLTSTKNGKILTKEADLVTTHELGH NFGAEHDP DGLAECAPNEDQGGKYVMPYIAVSGDHENNMFSNCSK QSIYKTIESKAQ ECFQERSNKVCGNSRVDEGEECDPGIMYLNNDTCCNSD CTLKPGVQCSDR NSPCKKNCQFETAQKKCQEAINATCKGVSYCTGNSSECP PPGDAED

Predicted molecular weight	63 kDa including tags
Amino acids	18 to 563
Tags	His tag C-Terminus
Additional sequence information	The predicted N-terminus is Pro 18, Asp 59 and Arg 215.

Specifications

Our **Abpromise guarantee** covers the use of **ab207138** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Lyophilized
Additional notes	This product is stable after storage at: -20 °C to -70 °C for 12 months in lyophilized state; -70 °C for 3 months under sterile conditions after reconstitution.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA). pH: 7.4 Constituents: 0.98% MES, 0.87% Sodium chloride, 5% Trehalose Lyophilized from 0.22 µm filtered solution.
Reconstitution	Reconstitute with sterile deionized water to a concentration of 200 µg/ml.

General Info

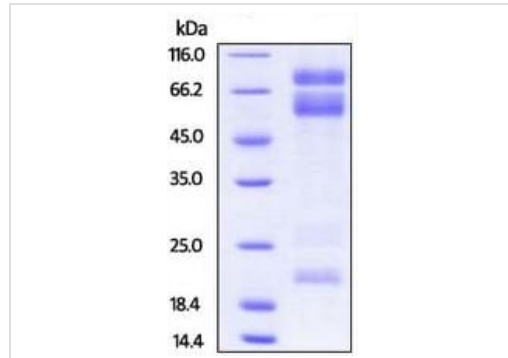
Function	Cleaves the membrane-bound precursor of TNF-alpha to its mature soluble form. Responsible for the proteolytical release of soluble JAM3 from endothelial cells surface. Responsible for the proteolytic release of several other cell-surface proteins, including p75 TNF-receptor, interleukin 1 receptor type II, p55 TNF-receptor, transforming growth factor-alpha, L-selectin, growth hormone receptor, MUC1 and the amyloid precursor protein. Also involved in the activation of Notch pathway.
Tissue specificity	Ubiquitously expressed. Expressed at highest levels in adult heart, placenta, skeletal muscle, pancreas, spleen, thymus, prostate, testes, ovary and small intestine, and in fetal brain, lung, liver and kidney.
Sequence similarities	Contains 1 disintegrin domain. Contains 1 peptidase M12B domain.
Domain	Must be membrane anchored to cleave the different substrates. The cytoplasmic domain is not required for the this activity. Only the catalytic domain is essential to shed TNF and p75 TNFR. The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.
Post-translational	The precursor is cleaved by a furin endopeptidase.

modifications

Phosphorylated. Stimulation by growth factor or phorbol 12-myristate 13-acetate induces phosphorylation of Ser-819 but decreases phosphorylation of Ser-791.

Cellular localization

Membrane.

Images

SDS-PAGE - Recombinant Mouse ADAM17 protein
(ab207138)

DTT-reduced SDS-PAGE analysis of ab207138 stained overnight with Coomassie Blue.

DTT-reduced protein migrates as 19 kDa and 20 kDa (propeptide), 55-66 kDa (mature-ADAM17) and 75-94 kDa (pro-ADAM17) in SDS-PAGE due to glycosylation.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors