

Recombinant Mouse ADA33 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51841

Size: 10ug, 100ug

Protein Name: Disintegrin and metalloproteinase domain-containing protein 33 (ADAM 33)
(EC 3.4.24.-)

Synonym: Adam33

UniProt ID: Q923W9

UniProt Link: www.uniprot.org/uniprotkb/Q923W9/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 797 AA

Molecular Weight: 87 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGSR CGRPGGSPVLLLLPLLLPSCPLRSARMFPGNAHGELVTPHWILEGRLWLKVTLEEPILKPDSV
LVALEAEGQDLLLELEKKHKLLAPGYTETHYRPDGHVVLSPNHTDHCQYHGRVVRGFRSWVVLST
CSGMSGILVLSSKVSYYLQPRTPGDTKDFPTHEIFRMEQLFTWRGVQRDKNSQYKAGMASLPHVPQ
SRVRREARRSPRYLELYIVADHTLFLQHQNLNHTRQRLLLEVANCVDQILRTLDIQLVLTGLEVWTEQ
DLSRITQDANETLWAFQWRRGVWARRPHDSTQLLTGRTFQGTTVGLAPVEGICRAESSGGVSTD
HSELPIGTAATMAHEIGHSLGLHHDPEGCCVQADAEQGGCVMEATGHPFPRVFSACSRRLRTFF
RKGGGPCLSNSTAPGLLVLPSCGNGFLEAGEECDGSGQKCPDPCCFAHNCSLRAGAQCAHGD
CCARCLLSAGTPCRPAATDCDLPEFCTGTSPYCPADVLLDGSPCAEGRGYCLDGWCPTLEQQC
QQLWGP GSKPAPEPCFQQMNSMGNSQGNCGQD HKGSFLPCAQRDALCGKLLCQGGE PNPLVPHI
VTMDSTILLEGREVVCRGAFVLPD SHLDQLDLGLVEPGTGCGPRMVCQDRHCQNATSQELERCLTA
CHNGGVCNSNRNCHCAAGWAPPFC DKPGLGGSVD SGPAQSANRDAFPLAMLLS FLLPLLPGAGLA
WCYYQLPTFCHRRGLCCRRDPLWNRDIPLG SVHPVEFGSIITGEPSPPPPWTSCQQRSHPPSLDLL
SDPANSELT

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Disintegrin and metalloproteinase domain-containing protein 33 (ADAM 33) (EC 3.4.24.-) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Metalloprotease that cleaves and sheds the ectodomains of cell-surface proteins and thereby contributes to angiogenesis, cell differentiation, inflammation, and cell proliferation. Modulates the activity of adhesion molecules and cytokines by generating soluble forms, leading to either attenuation of cell-surface signaling or initiation of downstream intracellular signaling pathways. For instance, acts as a constitutive sheddase of kit ligand/KITLG. Promotes and maintains a proliferative phenotype in vascular smooth muscle cells through regulation of the PI3K/AKT and ERK signaling pathways. Additionally, enhances cell migration and regulates cytokine secretion during airway vascular remodeling via the same signaling cascades.

Subcellular Localization: Cell membrane ; Single-pass type I membrane protein .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.