

Recombinant Human ADA33 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50016

Size: 10ug, 100ug

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

Synonym: ADAM33, C20orf153, UNQ873/PRO1891

UniProt ID: Q9BZ11

UniProt Link: www.uniprot.org/uniprotkb/Q9BZ11/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 813 AA

Molecular Weight: 88 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGWRPRRRARGTPLLLLLLLLLLWPVPGAGVLQGHIPGQPVTTPHWVLDGQPWRTVSLEEPVSKPDM
GLVALEAEGQELLLELEKNHRLAPGYIETHYGPDPGQPVLAPNHTDHCHYQGRVRGFPDSWVVL
TCSGMSGLITLSRNASYLLRPWPPRGSKDFSTHEIFRMEQLLTWKGTCGHRDPGNKAGMTSLPGG
PQSRGRREARRTRKYLELYIVADHTLFLTRHRNLNHTKQRLLEVANYVDQLLRTLDIQVALTGLEVWT
ERDRSRVTQDANATLWAFQWRRGLWAQRPHDSAQLLTGRAFGGATVGLAPVEGMCRAESSGGV
STDHSELPIGAAATMAHEIGHSLGLSHDPDGCCVEAAAESGGCVMAAATGHPFPRVFSACSRRLR
AFFRKGGGACLSNAPDPGLPVPPALCGNGFVEAGEECDGPGQECRDLCCFAHNCSLRPGAQCA
HGDCCVRCLLKPAALCRQAMGDCDLPEFCTGTSSHCPPDVYLLDGSPCARGSGYCWGACPTL
EQQCQQLWGPGSHPAPEACFQVVSAGDAHGNCGQDSEGHFLPCAGRDALCGKLQCQGGKPSL
LAPHMVPVDSTVHLDGQEVTCRGALALPSAQLDLLGLGLVEPGTQCGPRMVCQSRRRCRKNFQEL
QRCLTACHSHGVCNSNHNCAPGWAPPFCDKPGFGGSMDSGPVQAENHDTFLLAMLLSVLLPLL
PGAGLAWCCYRLPGAHLQRCSWGCRDPACSGPKDGPGRDHPLGGVHPMELGPTATGQPWPLD
PENSHEPSSHPEKPLPAVSPDPQADQVQMPSRCLW

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 (PubMed:14676211, PubMed:33982767). 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 (PubMed:14676211). Promotes and maintains a proliferative phenotype in vascular smooth muscle cells through regulation of the PI3K/AKT and ERK signaling pathways (PubMed:33982767). Additionally, enhances cell migration and regulates cytokine secretion during airway vascular remodeling via the same signaling cascades (PubMed:36091328).

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.