

Recombinant Rat ADAM17 Protein, His-tagged

Cat. No. ADAM17-073R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat ADAM17 protein with His tag was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	827
Description	<p>Predicted to enable PDZ domain binding activity; metalloendopeptidase activity involved in amyloid precursor protein catabolic process; and signaling receptor binding activity. Involved in several processes, including regulation of apoptotic process; regulation of signal transduction; and response to antineoplastic agent. Located in several cellular components, including apical part of cell; cell surface; and cytoplasmic vesicle. Biomarker of Alzheimer's disease; congestive heart failure; and thoracic aortic aneurysm. Human ortholog(s) of this gene implicated in Alzheimer's disease; inflammatory bowel disease; and type 2 diabetes mellitus. Orthologous to human ADAM17 (ADAM metallopeptidase domain 17).</p>
Form	Lyophilized
Molecular Mass	63.4 kDa
AA Sequence	<p>MRQRLFLTTLVFPVLAPRPPEEPGSGSHLRLEKLDLSLLSDYDILSLSNIQQHSIRKR DLQSATHLETLLTFSALKRHFKLYLTSSTERFSQNLRVVVVDGKEESEYSVKWQDFD SGHVVGEPDSRVLAHIGDDDDVTRINTDGAEYNIPLWRFVNDTKDKRMLVYKSEDI</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KDFSRLQSPKVCGYLNADSEELLPKGLIDREPSEEFVRRVKRRAEPNPLKNTCKLLV
 VADHRFYKYMGRGEESTTTNYLIELIDRVDDIYRNTSWDNAGFKGYGVQIEQIRILKS
 PQEVKPGERHFNMAKSPNEEKDAWDVKMLLEQFSLDIAEEASKVCLAHLFTYQDF
 DMGTLGLAYVGSPRANSHGGVCPKAYYNPGVKKNIYLNGLTSTKNYGKTILTKEAD
 LVTTHELGHNFGEAHDPDGLAECAPNEDQGGKYVMYPIAVSGDHENNKMFNSCSK
 QSIYKTIESKAQECFQERSNKVCGNSRVDEGEEDPGIMYLNNDTCCNSDCTLKPG
 VQCSDRNSPCKKNCQFETAQKKCQEAINATCKGVSYCTGNSSECPPPGDAEDDTV
 CLDLGKCKAGKCIPFCKREQELESCACADTDNSCKVCCRNLSGPCVPYVDAEQKNL
 FLRKGKPCTVGFCDMNGKCEKRVQDVIERFWDFIDQLSINTFGKFLADNIVGSVLVF
 SLIFWIPFSILVHCVDKLDKQYESLSLFHHSNIEMLSMDSASVRIIKPFPAPQTPGR
 LQALQPAAMMPPVSAAPKLDHQRMDTIQEDPSTDSHVDDDGFEEKDPFPNSSAAAK
 SFEDLTDHPVTRSEKAASFQKLRQSRVDSKETEC

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal

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performance.

GENE INFORMATION

Gene Name Adam17 ADAM metallopeptidase domain 17 [*Rattus norvegicus*]

Official Symbol ADAM17

Synonyms ADAM17; ADAM metallopeptidase domain 17; disintegrin and metalloproteinase domain-containing protein 17; ADAM 17; TNF-alpha convertase; TNF-alpha converting enzyme; TNF-alpha-converting enzyme; a disintegrin and metalloprotease domain 17; a disintegrin and metallopeptidase domain 17; a disintegrin and metalloproteinase domain 17 (tumor necrosis factor, alpha, converting enzyme); TACE;

Gene ID 57027

mRNA Refseq NM_020306

Protein Refseq NP_064702

UniProt ID Q9Z1K9

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