

Recombinant Human ADAM12 Protein

Cat. No. ADAM12-538H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ADAM12 protein without tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	909
Description	This gene encodes a member of a family of proteins that are structurally related to snake venom disintegrins and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. Expression of this gene has been used as a maternal serum marker for pre-natal development. Alternative splicing results in multiple transcript variants encoding different isoforms. Shorter isoforms are secreted, while longer isoforms are membrane-bound form.
Form	Lyophilized
Molecular Mass	55.2 kDa (Proprotein), 34.5 kDa(mature-form) & 20.1 kDa (propeptide)
AA Sequence	MAARPLPVSPARALLLALAGALLAPCEARGVSLWNQGRADEVVSASVSGDLWIPV KSFDSKNHPEVLNIRLQRESKELIINLERNEGLIASSFTETHYLQDGTDVSLARNYTVI LGHCYYHGHVRYGSDSAVSLSTCSGLRGLIVFENESYVLEPMKSATNRYKLFPAKKL KSVRGSCGSHHNTPNLAAKNVFPPPSQTWARRHKRETLKATKYVELVIVADNREFQ RQGDLEKVKQRLIEIANHVDFYRPLNIRIVLVGVEVWVNDMDKCSVSVQDPFTSLHE

 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

FLDWRKMKLLPRKSHDNAQLVSGVYFQGTIGMAPIMSMCTADQSGGIVMDHSDN
 PLGAAVTLAHELGHNFNFGMNHDTLDRGCSCQMAVEKGGCIMNASTGYPPFPMVFSSC
 SRKDLETSLEKGMGVCLFNLPEVRESFGGQKCGNRFVEEGEECDCEPEECMNR
 CCNATTCTLKPDVCAHGLCCEDCQLKPAGTACRDSSNSCDLPEFCTGASPHCPA
 NVYLHDGHSCQDVDGYCYNGICQTHEQQCVTLWGPAGKAPAGICFERVNSAGDPY
 GNCVKVSKSSFAKCEMRDAKCGKIQCGGASRPVIGTNAVSIETNIPLQQGGRILCR
 GTHVYLGDDMPDPGLVLAGTKCADGKICLNRCQNISVFGVHECAMQCHGRGVCN
 NRKNCHCEAHWAPPFCDFGFGGSTDSGPIRQADNQGLTIGILVTILCLLAAGFVVY
 LKRKTLIRLLFTNKTTIEKLRVCVRPSRPPRGFQPCQAHLGHLGKGLMRKPPDSYPP
 KDNPRLLQCQNVDISRPLNGLNVPQPQSTQRVLPPLHRAPRAPSVPARPLPAKPA
 LRQAQGTCKPNPPQKPLPADPLARTTRLTHALARTPGQWETGLRLAPLRPAPQYPH
 QVPRSTHTAYIK

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 [ADAM12 ADAM metalloproteinase domain 12 \[Homo sapiens \(human\) \]](#)

Official Symbol [ADAM12](#)

Synonyms ADAM12; ADAM metalloproteinase domain 12; a disintegrin and metalloproteinase domain 12 (meltrin alpha); disintegrin and metalloproteinase domain-containing protein 12; MCMPMItna; meltrin alpha; MLTN; meltrin-alpha; MCMP; MLTNA;

Gene ID [8038](#)

mRNA Refseq [NM_003474](#)

Protein Refseq [NP_003465](#)

MIM [602714](#)

UniProt ID [O43184](#)

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