

ADAM12 Protein, Human (HEK293, His)

Cat. No.:	HY-P72814
Synonyms:	Disintegrin and metalloproteinase domain-containing protein 12; ADAM 12; Meltrin-alpha; ADAM12; MLTN
Species:	Human
Source:	HEK293
Accession:	O43184 (R29-S513)
Gene ID:	8038
Molecular Weight:	27&55&72 kDa

PROPERTIES

AA Sequence	<pre> MAARPLPVSP ARALLLALAG ALLAPCEARG VSLWNQGRAD EVVSASVGGSG DLWIPVKSFD SKNHPEVLNI RLQRESKELI INLERNEGLI ASSFTETHYL QDGTDVSLAR NYTVILGHCY YHGHVRGYS D SAVSLSTCSG LRGLIVFENE SYVLEPMKSA TNRYKLFPAK KLSVVRGSCG SHHNTPNLAA KNVFPPPSQT WARRHKRETL KATKYVELVI VADNREFQRQ GKDLEKVKQR LIEIANHVDK FYRPLNIRIV LVGVEVWNDM DKCSVSQDPF TSLHEFLDWR KMKLLPRKSH DNAQLVSGVY FQGT TIGMAP IMSMCTADQS GGI VMDHSDN PLGAAVTLAH ELGHNFGMNH DTLDRGCSCQ MAVEKGGC IM NASTGYPPFM VFS SCSRKDL ETSLEKGMGV CLFNLPVRE SFGGQKCGNR FVEEGEECDC GPEEEMNRC CNATTCTLKP DAVCAHGLCC EDCQLKPAGT ACR DSSNSCD LPEFCTGASP HCPANVYLHD GHS </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized ADAM12 Protein, Human (HEK293, His) at 10 µg/mL (100 µl/well) can bind mouse FLRG-His with a linear range of 0.31-1.25 µg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

ADAM12 protein plays a significant role in skeletal muscle regeneration, particularly during the initiation of cell fusion processes. Additionally, it is implicated in the formation of macrophage-derived giant cells (MGC) and the differentiation of osteoclasts from mononuclear precursors, highlighting its multifaceted involvement in cellular events beyond muscle regeneration.

Caution: Product has not been fully validated for medical applications. For research use only.

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