

MEGF10 Protein, Human (HEK293, His)

Cat. No.:	HY-P76491
Synonyms:	Multiple epidermal growth factor-like domains protein 10; KIAA1780
Species:	Human
Source:	HEK293
Accession:	Q96KG7-1 (L26-G857)
Gene ID:	84466
Molecular Weight:	Approximately 95-120 kDa due to the glycosylation.

PROPERTIES

AA Sequence				
An Sequence	LNLEDPNVCS	HWESYSVTVQ	ESYPHPFDQI	YYTSCTDILN
	WFKCTRHRVS	YRTAYRHGEK	TMYRRKSQCC	PGFYESGEMC
	V P H C A D K C V H	GRCIAPNTCQ	CEPGWGGTNC	S S A C D G D H W G
	РНСТЅКСОСК	NGALCNPITG	ACHCAAGFRG	WRCEDRCEQG
	T Y G N D C H Q R C	QCQNGATCDH	VTGECRCPPG	YTGAFCEDLC
	РРСКНСРОСЕ	QRCPCQNGGV	СННVТGЕСSС	P S G W M G T V C G
	Q P C P E G R F G K	N C S Q E C Q C H N	G G T C D A A T G Q	СНСЅРGҮТGЕ
	RCQDECPVGT	YGVLCAETCQ	С	SGACLCEAGF
	AGERCEARLC	PEGLYGIKCD	KRCPCHLENT	НЅСНРМЅGЕС
	ACKPGWSGLY	CNETCSPGFY	GEACQQICSC	Q N G A D C D S V T
	GKCTCAPGFK	GIDCSTPCPL	GTYGINCSSR	CGCKNDAVCS
	P V D G S C T C K A	GWHGVDCSIR	CPSGTWGFGC	NLTCQCLNGG
	ACNTLDGTCT	CAPGWRGEKC	ELPCQDGTYG	LNCAERCDCS
	НАДССНРТТС	H C R C L P G W S G	VHCDSVCAEG	RWGPNCSLPC
	YCKNGASCSP	DDGICECAPG	FRGTTCQRIC	SPGFYGHRCS
	Q T C P Q C V H S S	GPCHHITGLC	DCLPGFTGAL	CNEVCPSGRF
	GKNCAGICTC	TNNGTCNPID	R S C Q C Y P G W I	G S D C S Q P C P P
	AHWGPNCIHT	C N C H N G A F C S	AYDGECKCTP	GWTGLYCTQR
	CPLGFYGKDC	ALICQCQNGA	DCDHISGQCT	CRTGFMGRHC
	EQKCPSGTYG	YGCRQICDCL	NNSTCDHITG	ТСҮСЅРGѠКG
	ARCDQAGVII	VGNLNSLSRT	STALPADSYQ	I G
Biological Activity	Measured in a cell prolifer	ration assay using C2C12 cel	ls. The ED ₅₀ for this effect is 3	32.22 ng/mL, corresponding to a specific
	activity is 3.10×10 ⁴ units/r			

Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.

Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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 MEGF10 Protein, a membrane receptor, plays a pivotal role in phagocytosis by macrophages and astrocytes, particularly in the clearance of apoptotic cells. As a receptor for C1q, an eat-me signal, MEGF10 binds to phosphatidylserine on the surface of apoptotic cells, facilitating their engulfment. The protein collaborates with ABCA1 during this process and contributes to the formation of large intracellular vacuoles, potentially involved in the uptake of amyloid-beta peptides. In addition to its role in apoptotic cell clearance, MEGF10 is essential for astrocyte-mediated clearance of apoptotic neurons in the developing cerebellum. Furthermore, MEGF10 influences muscle cell proliferation, adhesion, and motility, playing a crucial role in the regulation of myogenesis and the balance between skeletal muscle satellite cell proliferation and differentiation through the notch signaling pathway. Additionally, MEGF10 may contribute to the mosaic spacing of specific neuron subtypes in the retina, ensuring an even distribution across the retina for comprehensive visual field processing. The protein forms homomers and interacts with GULP1, ABCA1, AP2M1, and NOTCH1, highlighting its multifaceted roles in various cellular processes.

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

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