Proteins

Product Data Sheet

MEGF10 Protein, Human (HEK293, His)

Cat. No.: HY-P76491

Synonyms: Multiple epidermal growth factor-like domains protein 10; KIAA1780

Species: Source: HEK293

Accession: Q96KG7-1 (L26-G857)

Gene ID: 84466

Molecular Weight: Approximately 95-120 kDa due to the glycosylation.

PROPERTIES

AA Sequence				
·	LNLEDPNVCS	HWESYSVTVQ	ESYPHPFDQI	YYTSCTDILN
	WFKCTRHRVS	YRTAYRHGEK	TMYRRKSQCC	PGFYESGEMC
	V P H C A D K C V H	GRCIAPNTCQ	$C\;E\;P\;G\;W\;G\;G\;T\;N\;C$	SSACDGDHWG
	PHCTSRCQCK	NGALCNPITG	ACHCAAGFRG	WRCEDRCEQG
	TYGNDCHQRC	QCQNGATCDH	VTGECRCPPG	YTGAFCEDLC
	PPGKHGPQCE	QRCPCQNGGV	CHHVTGECSC	PSGWMGTVCG
	QPCPEGRFGK	NCSQECQCHN	$G\;G\;T\;C\;D\;A\;A\;T\;G\;Q$	CHCSPGYTGE
	RCQDECPVGT	YGVLCAETCQ	$C\;V\;N\;G\;G\;K\;C\;Y\;H\;V$	SGACLCEAGF
	AGERCEARLC	PEGLYGIKCD	KRCPCHLENT	HSCHPMSGEC
	ACKPGWSGLY	CNETCSPGFY	GEACQQICSC	QNGADCDSVT
	GKCTCAPGFK	GIDCSTPCPL	GTYGINCSSR	CGCKNDAVCS
	PVDGSCTCKA	GWHGVDCSIR	CPSGTWGFGC	NLTCQCLNGG
	ACNTLDGTCT	CAPGWRGEKC	ELPCQDGTYG	LNCAERCDCS
	HADGCHPTTG	HCRCLPGWSG	VHCDSVCAEG	RWGPNCSLPC
	YCKNGASCSP	DDGICECAPG	FRGTTCQRIC	SPGFYGHRCS
	QTCPQCVHSS	GPCHHITGLC	DCLPGFTGAL	CNEVCPSGRF
	GKNCAGICTC	TNNGTCNPID	RSCQCYPGWI	GSDCSQPCPP
	AHWGPNCIHT	CNCHNGAFCS	AYDGECKCTP	GWTGLYCTQR
	CPLGFYGKDC	ALICQCQNGA	DCDHISGQCT	CRTGFMGRHC
	EQKCPSGTYG	YGCRQICDCL	NNSTCDHITG	TCYCSPGWKG
	ARCDQAGVII	VGNLNSLSRT	STALPADSYQ	I G
Dielesiaal Astinita	Manager of the analysis of		- Th. FD	22.22
Biological Activity	activity is 3.10×10 ⁴ units/		is. The ED ₅₀ for this effect is	32.22 ng/mL, corresponding to a specifi
	activity is 3.10^10 utilits/	ilig.		
Appearance	Lyophilized powder.			
	7 · F · · · · · · · · · · · · · · · · ·			
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.			
Endotoxin Level	<1 EU/μg, determined by	LAL method.		
	= = 5, 56, 555			

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Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ 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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