

Agrin Protein, Human (CHO, His)

Cat. No.:	HY-P79236
Synonyms:	agrin proteoglycan; Agrin; AGRN
Species:	Human
Source:	CHO
Accession:	NP_940978 (A1260-P2045)
Gene ID:	375790
Molecular Weight:	97.12 kDa-110 kDa

PROPERTIES

AA Sequence

ATSGAIAAGA	TARATTASRL	PSSAVTPRAP	HPSHTSQPVA
KTTAAPTRR	PPTTAPSRVP	GRRPPAPQQP	PKPCDSQPCF
HGGTCQDWAL	GGGFTCS CPA	GRGGAVCEKV	LGAPVPAFEG
RSFLAFPTLR	AYHTLRLALE	FRALEPQG LL	LYNGNARGKD
FLALALLDGR	VQLRFDTGSG	PAVLTS AVPV	EPGQWHRLEL
SRHWRRG TLS	VDGETPVLGE	SPSGTDGLNL	DTDLFVGGVP
EDQAAVALER	TFVGAGLRGC	IRLLDVNNQR	LELGIGPGAA
TRGSGVGE CG	DHPCLPNPCH	GGAPCQNLEA	GRFHCQC PPG
RVGPTCADEK	SPCQPNPCHG	AAPCRVLPEG	GAQCECPLGR
EGTFCQTASG	QDGS GPFLAD	FNGFSHLELR	GLHTFARDLG
EKMALEV VFL	ARGPSGLLLY	NGQKTDGKGD	FVSLALRDRR
LEFRYDLGKG	AAVIRSREP V	TLGAWTRVSL	ERNGRKGALR
VGDGPRVLGE	SPVPHTVLNL	KEPLYVGGAP	DFSKLARAAA
VSSGF DGA IQ	LVS LGGRQLL	TPEHVLRQVD	VTSFAGHPCT
RASGHPC L NG	ASCVPREAA Y	VCLCPGGFSG	PHCEKGLVEK
SAGD VDTLAF	DGRTFVEYLN	AVTESEKALQ	SNHFELSLRT
EATQGLVLWS	GKATERADYV	ALAIVDGHLQ	LSYNLGSQP V
VL RSTVPVNT	NRWLRVVAHR	EQREGSLQVG	NEAPVTGSSP
LGATQLD TDG	ALWLGG LPEL	PVGPALPKAY	GTGFVGC LRD
VVVG RHP LHL	LEDAVTKPEL	RPCPTP	

Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of U-87 MG human glioblastoma/astrocytoma cells. The ED₅₀ this effect is <113.4 ng/mL after 1 hour incubation at 37 °C, corresponding to a specific activity is > 8.8183×10³ units/mg.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Endotoxin Level

<1 EU/μg, determined by LAL method.

Reconstitution	It is not recommended to reconstitute to a concentration less than 300 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

The Agrin protein, an essential component in the development of the neuromuscular junction (NMJ), has been identified through knockout studies in mice. It encompasses laminin G, Kazal type serine protease inhibitor, and epidermal growth factor domains. Additionally, post-translational modifications occur, including the addition of glycosaminoglycans and disulfide bonds. Notably, a mutation in this gene has been associated with congenital myasthenic syndrome affecting limb-girdle muscles in a specific family. Alternative splicing gives rise to multiple transcript variants that encode different isoforms. This protein exhibits a broad expression pattern, with notable presence in kidney, lung, and 21 other tissues.

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

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