

Recombinant Human AGRN protein, His/T7-tagged

Cat. No. AGRN-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AGRN fused with His/T7 tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes one of several proteins that are critical in the development of the neuromuscular junction (NMJ), as identified in mouse knock-out studies. The encoded protein contains several laminin G, Kazal type serine protease inhibitor, and epidermal growth factor domains. Additional post-translational modifications occur to add glycosaminoglycans and disulfide bonds. In one family with congenital myasthenic syndrome affecting limb-girdle muscles, a mutation in this gene was found. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Molecular Mass	64.2kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MASMTGGQQM GRGSEF LVEKS AGDVDTLAFD GRTFVEYLNA VTESEKALQS NHFELSLRTE ATQGLVLWSG KATERADYVA LAIVDGHLQL SYNLGSQPVV LRSTVPVNTN RWLRVVAHRE QREGSLQVGN EAPVTGSSPL GATQLDTDGA LWLGGLPELP VGPALPKAYG TGFVGCLR DV VVGRHPLHLL EDAVTKPELR PCPTP

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Applications	SDS-PAGE; WB; ELISA; IP.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	AGRN agrin [Homo sapiens]
Official Symbol	AGRN
Synonyms	AGRN; agrin; AGRIN; agrin proteoglycan;
Gene ID	375790
mRNA Refseq	NM_198576
Protein Refseq	NP_940978
MIM	103320
UniProt ID	O00468
Chromosome Location	1p36.33
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-

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receptor interaction, conserved biosystem; NCAM signaling for neurite out-growth, organism-specific biosystem; NCAM1 interactions, organism-specific biosystem;

Function

acetylcholine receptor regulator activity; laminin binding; protein binding; structural constituent of cytoskeleton;

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