Recombinant Human NLGN4X, His-tagged

Cat. No. NLGN4X-158H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Neuroligin 4, X-Linked/NLGN4X is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Gln42-Ser676) of Human NLGN4X fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
Description	Neuroligin 4, X-Linked (NLGN4X) is a single-pass type I membrane protein that belongs to the type-B carboxylesterase/lipase family. NLGN4X is detected at higher levels in heart and at lower levels in the liver, skeletal muscle, and pancreas. NLGN4X is a putative neuronal cell surface protein involved in cell-cell-interactions. NLGN4X may act as splice site-specific ligands for β-neurexins. It has been shown that NLGN4X is involved in the formation and remodeling of central nervous system synapses. NLGN4X also interacts with discs, large (Drosophila) homolog 4 (DLG4). Defects in NLGN4X have been associated with autism and Asperger syndrome.
AA Sequence	QAQYPVVNTNYGKIRGLRTPLPNEILGPVEQYLGVPYASPPTGERRFQPPEPPSSW TGIRNTTQF AAVCPQHLDERSLLHDMLPIWFTANLDTLMTYVQDQNEDCLYLNIYVP TEDDIHDQNSKKPVMVY IHGGSYMEGTGNMIDGSILASYGNVIVITINYRLGILGFLST GDQAAKGNYGLLDQIQALRWIEE NVGAFGGDPKRVTIFGSGAGASCVSLLTLSHYS EGLFQKAIIQSGTALSSWAVNYQPAKYTRILA DKVGCNMLDTTDMVECLRNKNYKE LIQQTITPATYHIAFGPVIDGDVIPDDPQILMEQGEFLNYD IMLGVNQGEGLKFVDGIV DNEDGVTPNDFDFSVSNFVDNLYGYPEGKDTLRETIKFMYTDWADKE NPETRRKTL

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	VALFTDHQWVAPAVATADLHAQYGSPTYFYAFYHHCQSEMKPSWADSAHGDEVPY V FGIPMIGPTELFSCNFSKNDVMLSAVVMTYWTNFAKTGDPNQPVPQDTKFIHTKP NRFEEVAWSK YNPKDQLYLHIGLKPRVRDHYRATKVAFWLELVPHLHNLNEIFQYV STTTKVPPPDMTSFPYGTR RSPAKIWPTTKRPAITPANNPKHSKDPHKTGPEDTTVL IETKRDYSTELSVDHHHHHH
Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

GENE INFORMATION

Gene Name	NLGN4X neuroligin 4, X-linked [Homo sapiens]
Official Symbol	NLGN4X
Synonyms	NLGN4X; neuroligin 4, X-linked; neuroligin 4 , NLGN4; neuroligin-4, X-linked; HLNX; KIAA1260; NLGN; neuroligin X; HNLX; HNL4X; NLGN4; ASPGX2; AUTSX2; MGC22376;
Gene ID	57502
mRNA Refseq	NM_020742
Protein Refseq	NP_065793
MIM	300427
UniProt ID	Q8N0W4
Chromosome	Xp22.33

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Location	
Pathway	Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem;
Function	NOT carboxylesterase activity; chloride ion binding; neurexin family protein binding; neurexin family protein binding; protein binding; protein homodimerization activity; receptor activity;

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