

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 QAQYPVVNTNYGKIRGLRTPNEILGPVEQYLGVPYASPPTGERRFQPPEPPSSW
 TGIRNTTQF AAVCPQHLDERSLLHDMLPIWFTANLDTLMTYVQDQNEDECLYLNIIYVP
 TEDDIHDQNSKKPVMVY IHGGSYMEGTGNMIDGSILASYGNVIVITINYRLGILGFLST
 GDQAAKGNYGLLDQIQALRWIEE NVGAFGGDPKRVTIFGSGAGASCVSLLTLSHYS
 EGLFQKAIQSGTALSSWAVNYQPAKYTRILA DKVGCNMLDTTDMVECLRKNKYKE
 LIQQTITPATYHIAFGPVIDGDVIPDDPQILMEQGEFLNYD IMLGVNQGEGLKFVDGIV
 DNEDGVTPNDFDFSVSNFVDNLYGYPEGKDTLRETIKFMYPDWADKE NPETRRKTL

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VALFTDHQWVAPAVATADLHAQYGSPTYFYAFYHHCQSEMKPSWADSAHGDEV
 V FGIPMIGPTELFSCNFSKNDVMLSAVVMTYWTNFAKTGDPNQPVQD
 TDKFIHTKP
 NRFEEVAWSK YNPKDQLYLHIGLKPRVRDHYRATKVAFWLEL
 VPHLHNLNEIFQYV
 STTTKVPPPDMTSFPYGTR RSPAKIWPTTKRPAITPANNPKH
 SKDPHKTGPEDTTVL
 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 neuroigin 4, X-linked \[Homo sapiens \]](#)

Official Symbol NLGN4X

Synonyms NLGN4X; neuroigin 4, X-linked; neuroigin 4 , NLGN4; neuroigin-4, X-linked; HLNX; KIAA1260; NLGN; neuroigin 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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