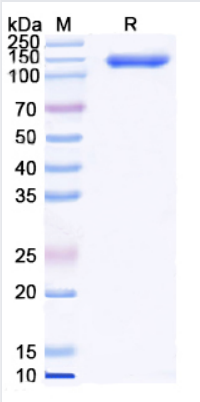
CASPR2/CNTNAP2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CASPR2/CNTNAP2, Recombinant Protein
Full Product Name	Recombinant Human CASPR2/CNTNAP2 Protein, N-His
Product Gene Name	CASPR2/CNTNAP2 recombinant protein
Product Synonym Names	Contactin-associated protein-like 2; Cell recognition molecule Caspr2; CNTNAP2; CASPR2; KIAA0868
Sequence	Ala28-Ala1 262
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH 7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE.
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for frequent use. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	11,899 Da
3D Structure	ModBase 3D Structure for Q9UHC6
Species	Homo sapiens (Human)
Reconstitution	Reconstitute in sterile water for a stock solution. A copy of datasheet will be provided with the products, please refer to it for details.
Product Categories/Family for CASPR2/CNTNAP2 recombinant protein	Recombinant Protein; Other Proteins; Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CASPR2/CNTNAP2 recombinant protein	ELISA (EIA), Immunogen, SDS-PAGE, Western Blot (WB), Bioactivity testing in progress
Related Product Information for CASPR2/CNTNAP2 recombinant protein	MBS1587634 is a recombinant protein targeting CASPR2/CNTNAP2. Also known as Recombinant Human CASPR2/CNTNAP2 Protein, N-His. Host: E coli.
Other Notes	Small volumes of CASPR2/CNTNAP2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of CASPR2/CNTNAP2 recombinant protein
SDS-PAGE for Recombinant Human CASPR2/CNTNAP2 protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CASPR2/CNTNAP2. It may not necessarily be applicable to this product.

NCBI GI #	7662350
NCBI GeneID	26047
NCBI Accession #	NP_054860.1
UniProt Primary Accession #	Q9UHC6
UniProt Secondary Accession #	Q14DG2; Q52LV1; Q5H9Q7; Q9UQ12; D3DWG2
UniProt Related Accession #	Q9UHC6
GenBank Nucleotide #	NM_014141.5
NCBI Official Full Name	contactin-associated protein-like 2
NCBI Official Synonym Full Names	contactin associated protein like 2
NCBI Official Symbol	CNTNAP2
NCBI Official Synonym Symbols	CDFE; NRXN4; AUTS15; CASPR2; PTHSL1
UniProt Protein Name	Contactin-associated protein-like 2
UniProt Synonym Protein Names	Cell recognition molecule Caspr2
UniProt Gene Name	CNTNAP2
NCBI Protein Information	contactin-associated protein-like 2
NCBI Summary for CASPR2/CNTNAP2	This gene encodes a member of the neurexin family which functions in the vertebrate nervous system as cell adhesion molecules and receptors. This protein, like other neurexin proteins, contains epidermal growth factor repeats and laminin G domains. In addition, it includes an F5/8 type C domain, discoidin/neuropilin- and fibrinogen-like domains, thrombospondin N-terminal-like domains and a putative PDZ binding site. This protein is localized at the juxtaparanodes of myelinated axons, and mediates interactions between neurons and glia during nervous system development and is also involved in localization of potassium channels within differentiating axons. This gene encompasses almost 1.5% of chromosome 7 and is one of the largest genes in the human genome. It is directly bound and regulated by forkhead box protein P2, a transcription factor related to speech and language development. This gene has been implicated in multiple neurodevelopmental disorders, including Gilles de la Tourette syndrome, schizophrenia, epilepsy, autism, ADHD and intellectual disability. [provided by RefSeq, Jul 2017]
UniProt Comments for CASPR2/CNTNAP2	Required, with CNTNAP1, for radial and longitudinal organization of myelinated axons. Plays a role in the formation of functional distinct domains critical for saltatory conduction of nerve impulses in myelinated nerve fibers. Demarcates the juxtaparanodal region of the axo-glial junction.

Research Articles on CASPR2/CNTNAP2	**1.** This study evaluated a possible association between ASD and the presence of five single nucleotide polymorphisms (rs7794745, rs10500171, rs2710105,rs2710102, and rs2538989) in CNTNAP2in the Korean population. The genetic variants in CNTNAP2 do not play a role in ASD affection possibility in this study, but evidence suggests that one SNP(rs10500171) might be associated with sociality-relatedphenotypes in Koreans
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