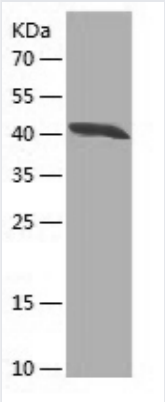
OPHN1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	OPHN1, Recombinant Protein
Full Product Name	Recombinant Human OPHN1
Product Gene Name	OPHN1 recombinant protein
Product Synonym Names	MRX60; oligophrenin 1; OPHN1; OPN1
Host	E Coli
Form/Format	Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose and 0.06% proclin, pH7.4
Purity/Purification	Greater than 85% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	36,673 Da
Sequence Positions	198-385
OMIM	gene 300486
3D Structure	ModBase 3D Structure for O60890
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000 rpm for 1 minute, reconstitute at 200 ug/ml in sterile distilled water by gentle pipetting 2-3 times, don't vortex
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for OPHN1 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for OPHN1 recombinant protein	MBS7616201 is a recombinant protein targeting OPHN1. Also known as Recombinant Human OPHN1. Host: E Coli.
Other Notes	Small volumes of OPHN1 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 OPHN1 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OPHN1. It may not necessarily be applicable to this product.

NCBI GI #	3059135
NCBI GeneID	4983
NCBI Accession #	CAA04579.1
UniProt Primary Accession #	O60890
UniProt Secondary Accession #	Q5JQ81; Q6PCC1; Q8WX47; B9EIP8
UniProt Related Accession #	O60890
NCBI Official Full Name	oligophrenin 1
NCBI Official Synonym Full Names	oligophrenin 1
NCBI Official Symbol	OPHN1
NCBI Official Synonym Symbols	OPN1; MRX60; ARHGAP41
UniProt Protein Name	Oligophrenin-1
Protein Family	Oligophrenin
UniProt Gene Name	OPHN1
UniProt Entry Name	OPHN1_HUMAN
NCBI Protein Information	oligophrenin-1; mental retardation, X-linked 60; oligophrenin-1, Rho-GTPase activating protein
NCBI Summary for OPHN1	This gene encodes a Rho-GTPase-activating protein that promotes GTP hydrolysis of Rho subfamily members. Rho proteins are important mediators of intracellular signal transduction, which affects cell migration and cell morphogenesis. Mutations in this gene are responsible for OPHN1-related X-linked mental retardation with cerebellar hypoplasia and distinctive facial dysmorhphism. [provided by RefSeq, Jul 2008]

UniProt Comments for OPHN1	OPHN1: Stimulates GTP hydrolysis of members of the Rho family. Its action on RHOA activity and signaling is implicated in growth and stabilization of dendritic spines, and therefore in synaptic function. Critical for the stabilization of AMPA receptors at postsynaptic sites. Critical for the regulation of synaptic vesicle endocytosis at presynaptic terminals. Defects in OPHN1 are the cause of mental retardation X- linked OPHN1-related (MRXSO); formerly designated MRX60. MRXSO is a syndromic mental retardation. Patients present mental retardation associated with cerebellar hypoplasia and distinctive facial dysmorphism. Protein type: Motility/polarity/chemotaxis; GAPs, Rac/Rho; GAPs Chromosomal Location of Human Ortholog: Xq12 Cellular Component: dendritic spine; terminal button; cell junction; cytosol; actin cytoskeleton Molecular Function: ionotropic glutamate receptor binding; phospholipid binding; actin binding Biological Process: nervous system development; axon guidance; regulation of small GTPase mediated signal transduction; regulation of synaptic transmission, glutamatergic; small GTPase mediated signal transduction; synaptic vesicle endocytosis; regulation of endocytosis; actin cytoskeleton organization and biogenesis; signal transduction; substrate-bound cell migration, cell extension Disease: Mental Retardation, X-linked, With Cerebellar Hypoplasia And Distinctive Facial Appearance
Research Articles on OPHN1	**1.** In response to GPVI stimulation, OPHN1 becomes phosphorylated at Tyr370 and plays a role in the formation of filopodia during platelet spreading on collagen.
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