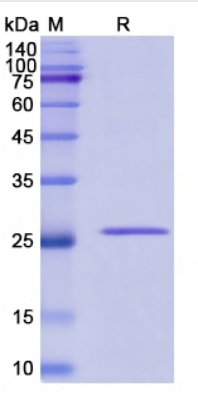
WFS1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	WFS1, Recombinant Protein
Full Product Name	Recombinant Human WFS1 Protein, N-His
Product Gene Name	WFS1 recombinant protein
Product Synonym Names	WFS1; Wolframin
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 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 one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	100,292 Da
Sequence Positions	Arg653-Ser869
OMIM	116400
3D Structure	ModBase 3D Structure for O76024
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for WFS1 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for WFS1 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for WFS1 recombinant protein	MBS1576598 is a recombinant protein targeting WFS1. Also known as Recombinant Human WFS1 Protein, N-His. Host: E coli.
Other Notes	Small volumes of WFS1 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 WFS1 recombinant protein
SDS PAGE for Recombinant Human WFS1 Protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WFS1. It may not necessarily be applicable to this product.

NCBI GI #	119602804
NCBI GeneID	7466
NCBI Accession #	EAW82398.1
UniProt Primary Accession #	O76024
UniProt Secondary Accession #	Q8N6I3; Q9UNW6; B2R797; D3DVT1
UniProt Related Accession #	O76024
NCBI Official Full Name	Wolfram syndrome 1 (wolframin), isoform CRA_a
NCBI Official Synonym Full Names	Wolfram syndrome 1 (wolframin)
NCBI Official Symbol	WFS1
NCBI Official Synonym Symbols	WFS; WFRS; WFSL; CTRCT41
UniProt Protein Name	Wolframin
Protein Family	Wolframin
UniProt Gene Name	WFS1
UniProt Entry Name	WFS1_HUMAN
NCBI Protein Information	wolframin
NCBI Summary for WFS1	This gene encodes a transmembrane protein, which is located primarily in the endoplasmic reticulum and ubiquitously expressed with highest levels in brain, pancreas, heart, and insulinoma beta-cell lines. Mutations in this gene are associated with Wolfram syndrome, also called DIDMOAD (Diabetes Insipidus, Diabetes Mellitus, Optic Atrophy, and Deafness), an autosomal recessive disorder. The disease affects the brain and central nervous system. Mutations in this gene can also cause autosomal dominant deafness 6 (DFNA6), also known as DFNA14 or DFNA38. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2009]

UniProt Comments for WFS1	WFS1: Participates in the regulation of cellular Ca(2+) homeostasis, at least partly, by modulating the filling state of the endoplasmic reticulum Ca(2+) store. Highly expressed in heart followed by brain, placenta, lung and pancreas. Weakly expressed in liver, kidney and skeletal muscle. Also expressed in islet and beta-cell insulinoma cell line. Protein type: Membrane protein, multi-pass; Endoplasmic reticulum; Membrane protein, integral Chromosomal Location of Human Ortholog: 4p16.1 Cellular Component: endoplasmic reticulum membrane; endoplasmic reticulum; dendrite; integral to endoplasmic reticulum membrane Molecular Function: calmodulin binding; transcription activator binding; transporter activity; ubiquitin protein ligase binding; calcium-dependent protein binding; ATPase binding Biological Process: protein maturation via protein folding; ER-associated protein catabolic process; olfactory behavior; protein stabilization; positive regulation of proteolysis; unfolded protein response; negative regulation of transcription factor activity; glucose homeostasis; positive regulation of protein metabolic process; neurological system process; calcium ion homeostasis; endoplasmic reticulum calcium ion homeostasis; unfolded protein response, activation of signaling protein activity; sensory perception of sound; cellular protein metabolic process; visual perception; positive regulation of protein ubiquitination; negative regulation of programmed cell death; renal water homeostasis; negative regulation of neuron apoptosis; kidney development; positive regulation of calcium ion transport; positive regulation of growth; ER overload response Disease: Deafness, Autosomal Dominant 6; Wolfram Syndrome 1; Wolfram-like Syndrome, Autosomal Dominant; Cataract 41; Diabetes Mellitus, Noninsulin-dependent
Research Articles on WFS1	**1.** Identified a DNA substitution (c.1385A-to-G) in WFS1 exon.
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