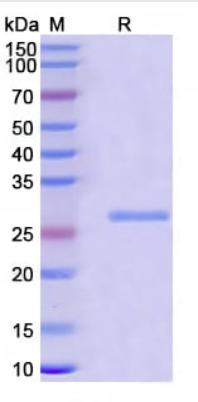
GLRA1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	GLRA1, Recombinant Protein
Full Product Name	Recombinant Human GLRA1 Protein, N-His
Product Gene Name	GLRA1 recombinant protein
Product Synonym Names	Glycine receptor 48 kDa subunit; Glycine receptor strychnine-binding subunit; Glycine receptor subunit alpha-1; GLRA1
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	449
Sequence Positions	Ala32-Gln247
OMIM	gene 149400
3D Structure	ModBase 3D Structure for P23415
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for GLRA1 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for GLRA1 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for GLRA1 recombinant protein	MBS1577641 is a recombinant protein targeting GLRA1. Also known as Recombinant Human GLRA1 Protein, N-His. Host: E coli.
Other Notes	Small volumes of GLRA1 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 GLRA1 recombinant protein
SDS PAGE for Recombinant Human GLRA1 Protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLRA1. It may not necessarily be applicable to this product.

NCBI GI #	116242495
NCBI GeneID	2741
NCBI Accession #	P23415.2
UniProt Primary Accession #	P23415
UniProt Secondary Accession #	Q14C77; Q6DJV9; B2R6T3
UniProt Related Accession #	P23415
NCBI Official Full Name	Glycine receptor subunit alpha-1
NCBI Official Synonym Full Names	glycine receptor, alpha 1
NCBI Official Symbol	GLRA1
NCBI Official Synonym Symbols	STHE; HKPX1
UniProt Protein Name	Glycine receptor subunit alpha-1
UniProt Synonym Protein Names	Glycine receptor 48 kDa subunit; Glycine receptor strychnine-binding subunit
Protein Family	Glycine receptor
UniProt Gene Name	GLRA1
UniProt Entry Name	GLRA1_HUMAN
NCBI Protein Information	glycine receptor subunit alpha-1; glycine receptor 48 kDa subunit; glycine receptor strychnine-binding subunit
NCBI Summary for GLRA1	The protein encoded by this gene is a subunit of a pentameric inhibitory glycine receptor. The receptor mediates postsynaptic inhibition in the central nervous system. Defects in this gene are a cause of startle disease (STHE), also known as hereditary hyperekplexia or congenital stiff-person syndrome. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2014]

UniProt Comments for GLRA1	GLRA1: The glycine receptor is a neurotransmitter-gated ion channel. Binding of glycine to its receptor increases the chloride conductance and thus produces hyperpolarization (inhibition of neuronal firing). Defects in GLRA1 are the cause of hyperekplexia, hereditary, type 1 (HKPX1). A neurologic disorder characterized by muscular rigidity of central nervous system origin, particularly in the neonatal period, and by an exaggerated startle response to unexpected acoustic or tactile stimuli. Belongs to the ligand-gated ion channel (TC 1.A.9) family. Glycine receptor (TC 1.A.9.3) subfamily. GLRA1 sub- subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Transporter, ion channel; Transporter Chromosomal Location of Human Ortholog: 5q32 Cellular Component: postsynaptic membrane; intracellular membrane-bound organelle; integral to plasma membrane; integral to membrane; plasma membrane; cell junction; external side of plasma membrane Molecular Function: protein binding; transmitter-gated ion channel activity; extracellular-glycine-gated chloride channel activity; glycine binding; taurine binding Biological Process: regulation of action potential; startle response; synaptic transmission, glycinergic; righting reflex; acrosome reaction; chloride transport; neurological control of breathing; adult walking behavior; regulation of inhibitory postsynaptic membrane potential; neuromuscular process controlling posture; regulation of membrane potential; visual perception; negative regulation of transmission of nerve impulse; muscle contraction; neuropeptide signaling pathway; ion transport; transmembrane transport Disease: Hyperekplexia, Hereditary 1
Research Articles on GLRA1	**1.** Comparison of glycine-mediated conformational changes in the extracellular M2-M3 domain finds significantly different structures between GlyR alpha3 and GlyR alpha1 isoforms.
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