

Recombinant Human GLRA1

Cat. No. GLRA1-27289TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human alpha 1 Glycine Receptor (amino acids 121-220) with N terminal proprietary tag, 36.63kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	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. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids IWKPDLFFANEKGAHFHEITTDNKLLRISRNGNVLYSIRITLTLACPMDLKNFPMDVQT
CIMQLESFGYTMNDLIFEWQEQGAVQVADGLTLPQFILKEE

Sequence Similarities Belongs to the ligand-gated ion channel (TC 1.A.9) family. Glycine receptor (TC 1.A.9.3) subfamily. GLRA1 sub-subfamily.

GENE INFORMATION

Gene Name [GLRA1 glycine receptor, alpha 1 \[Homo sapiens \]](#)

Official Symbol [GLRA1](#)

Synonyms GLRA1; glycine receptor, alpha 1; glycine receptor, alpha 1 (startle disease/hyperekplexia) , STHE; glycine receptor subunit alpha-1; startle disease/hyperekplexia; stiff person syndrome;

Gene ID [2741](#)

mRNA Refseq [NM_000171](#)

Protein Refseq [NP_000162](#)

MIM [138491](#)

Uniprot ID [P23415](#)

Chromosome Location 5q31-q33

Pathway Ion channel transport, organism-specific biosystem; Ligand-gated ion channel transport, organism-specific biosystem; Neuroactive ligand-receptor interaction,

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organism-specific biosystem; Neuroactive ligand-receptor interaction, conserved biosystem; Transmembrane transport of small molecules, organism-specific biosystem;

Function

extracellular ligand-gated ion channel activity; extracellular-glycine-gated chloride channel activity; contributes_to extracellular-glycine-gated chloride channel activity; extracellular-glycine-gated chloride channel activity; glycine binding;

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