

Recombinant Human GRIA3

Cat. No. GRIA3-27524TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Glutamate receptor 3 with N-Terminal proprietary tag. Mol Wt 36.63 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. These receptors are heteromeric protein complexes composed of multiple subunits, arranged to form ligand-gated ion channels. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. The subunit encoded by this gene belongs to a family of AMPA (alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate)-sensitive glutamate receptors, and is subject to RNA editing (AGA->GGA; R->G). Alternative splicing at this locus results in different isoforms, which may vary in their signal transduction properties.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SLLGHYKWEKFVYLYDTERGFSILQAIMEAAVQNNWQVTARSVGNIKDVQEFRRRIIE EMDRRQEKRYLIDCEVERINTILEQVVILGKHSRGYHYMLANL
Sequence Similarities	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA3 subfamily.

GENE INFORMATION

Gene Name	GRIA3 glutamate receptor, ionotropic, AMPA 3 [Homo sapiens]
Official Symbol	GRIA3
Synonyms	GRIA3; glutamate receptor, ionotropic, AMPA 3; GLUR3; glutamate receptor 3; GLURC; MRX94;
Gene ID	2892
mRNA Refseq	NM_000828
Protein Refseq	NP_000819
MIM	305915
Uniprot ID	P42263
Chromosome Location	Xq25

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Pathway

Activation of AMPA receptors, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; Glutamate Binding, Activation of AMPA Receptors and Synaptic Plasticity, organism-specific biosystem;

Function

PDZ domain binding; alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate selective glutamate receptor activity; extracellular-glutamate-gated ion channel activity; ion channel activity; receptor activity;

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