

GRIA3 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	Glutamate receptor ionotropic, AMPA 3;GluR-C;GLUR3;GluR-3;AMPA-selective glutamate receptor 3;Glutamate receptor 3;GluA3;GLURC;GluR-K3;GRIA3
Protein Construction:	151-250 aa
Species:	Human
Expression Host:	E. coli
Accession:	P42263
Molecular Weight:	28.0 kDa (predicted)
AA Sequence:	SLLGHYKWEKVVLYDTERGFSILQAIMEAAVQNNWQVTARSVGNIKDVQEFRRRIIEEMDRRQEKRYLIDCEV ERINTILEQVVILGKHSRGGYHYMLANL

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Receptor for glutamate that functions as ligand-gated ion channel in the central nervous system and plays an important role in excitatory synaptic transmission. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by

the presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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