

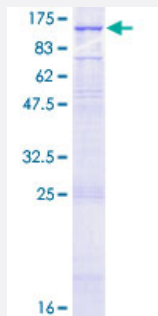
Full-Length

GRIK3 (Human) Recombinant Protein (P01)

Catalog # H00002899-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GRIK3 full-length ORF (NP_000822.2, 1 a.a. - 919 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTAPWRRLRSLVWEYWAGLLVCAFWIPDSRGMPHVIRIGGIFEYADGPNAQVMNAEEHAFRFSAN
NIINRNRTLLPNTTLYDIQRIHFHDSFEATKKACDQLALGVVAIFGPSQGSCTNAVQSICNALEVPHI
QLRWKHHPLDNKDTFYVNLYPDYASLSHAILDLVQYWKWRSATVVYDDSTGLIRLQELIMAPSRYN
RLKIRQLPIDSDSRPLLKEMKRGREFRIIFDCSHTMAAQILKQAMAMGMMTEYHFIFTTLDLYALD
LEPYRYSGVNLTGFRILNVDNPHVSAVEKWSMERLQAAPRSESGLLDGVMMDAALLYDAVHIV
SVCYQRAPQMTVNSLQCHRHKAWRFGGRFMNFIKEAQWEGLTGRVFNKTSGLRTDFDLDIISLK
EDGLEKVGWVSPADGLNITEVAKGRGPNVTDLSLTNRSLVTTVLEEPFVMFRKSDRTLYGNDRFE
GYCIDLLKELAHILGFSYEIRLVEDGKYGAQDDKGQWNGMVKELIDHKADLAVAPLTITHVREKAID
FSKPFMTLGVSLYRKPNGTNPSVFSFLNPLSPDWMYVLLAYLGVSCVLFVIARFSPYEWYDAHP
CNPGEVVENNFTLLNSFWFGMGSLMQQGSSELMPKALSTRIIGMWFFTLIISSYTANLAAFLTV
ERMESPIDSAADLAKQTKIEYGAVKDGMTFFKKSISTFEKMWAFMSSKPSALVKNNEEGIQR
ALTADYALLMESTTIEYVTQRNCNLQIGGLIDSKGYGIGTPMGSPYRDKITAILQLQEEDKLHIMKEK
WWRGSGCPPEENKEASALGIQKIGGIFVLAAGLVLSVLVAVGEFVYKLRKTAEREQRSFCSTVA
DEIRFSLTCQRRVKHKPQPPMMVKTDAVINMHTFNDRLPGKDSMACSTSLAPVFP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

130.4

Interspecies Antigen Sequence

Mouse (99); Rat (99)

Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GRIK3

Entrez GeneID	2899
GeneBank Accession#	NM_000831.2
Protein Accession#	NP_000822.2
Gene Name	GRIK3
Gene Alias	EAA5, GLR7, GLUR7, GluR7a
Gene Description	glutamate receptor, ionotropic, kainate 3
Omim ID	138243
Gene Ontology	Hyperlink

Gene Summary

Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belongs to the kainate family of glutamate receptors, which are composed of four subunits and function as ligand-activated ion channels. It is not certain if the subunit encoded by this gene is subject to RNA editing as the other 2 family members (GRIK1 and GRIK2). A Ser310Ala polymorphism has been associated with schizophrenia, and there are conflicting reports of its association with the pathogenesis of delirium tremens in alcoholics. [provided by RefSeq]

Other Designations

OTTHUMP00000004360|dJ1090M5.1 (glutamate receptor, ionotropic, kainate 3 (GLUR7))|excitatory amino acid receptor 5|glutamate receptor 7

Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Alcohol Withdrawal Delirium](#)
- [Alcohol Withdrawal Seizures](#)
- [Alcoholism](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Depressive Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Obsessive-Compulsive Disorder](#)
- [Personality Assessment](#)
- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)
- [Recurrence](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)

- [Tobacco Use Disorder](#)