

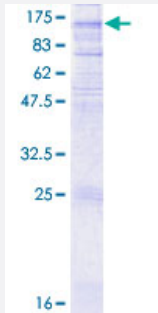
Full-Length

GRM7 (Human) Recombinant Protein (P01)

Catalog # H00002917-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GRM7 full-length ORF (NP_000835.1, 1 a.a. - 915 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MVQLRKLLRVLTLMKFPCCVLEVLLCALAAAARGQEMYAPHSIRIEGDVTLGGLFPVHAKGPSGV
PCGDIKRENGIHRLEAMLYALDQINSDPNLLPNVTLGARILDTCRDYALEQSLTFVQALIQKDTSD
VRCTNGEPPVFVKPEKVVGIGASGSSVSIMVANILRLFQIPQISYASTAPELSDDRRYDFFSRVVP
PDSFQAQAMVDIVKALGWNYVSTLASEGSYGEKGVESFTQISKEAGGLCIAQSVRIPQERKDRTID
FDRIKQLLDTPNSRAVVIFANDEDIKQILAAAKRADQVGHFLWVGSDSWGSKINPLHQHEDIAEGAI
TIQPKRATVEGFDAYFTSRTLENNRRNVWFAEYWEENFNCKLTISGSKKEDTDRKCTGQERIGKD
SNYEQEGKVQFVIDAVYAMAHALHHMNKDLCADYRGVCPHEMEQAGGKLLKYIRNVNFNGSAGT
PVMFNKNGDAPGRYDIFQYQTTNTSNPGYRLIGQWTDELQLNIEDMQWGKGVREIPASVCTLPCK
PGQRKKTQKGTTPCCWTCEPCDGYQYQFDEMTCQHCPYDQRPNENRTGCQDIPKLEWHSPWA
VIPVFLAMLGIIATIFVMATFIRYNDTPIVRASGRELSYVLLTGIFLCYITFLMIKPDVAVCSFRRVFLG
LGMCSISYAALLTKTNRIRIFEQGKKSVTAPRLISPTSQLAITSSLISVQLLGVFWFVGVDPPNIIIDYDE
HKTMNPEQARGVLKCDITDLQICSLGYSILLMVTCTVYAIKTRGVPENFNEAKPIGFTMYTTCMWLA
FIPIFFGTAQSAEKLYIQTTTLTISMNLSASVALGMLYMPKVYIIIFHELVQKRVKRSFKAVVTAATMS
SRLSHKPSDRPNGEAKTELCENVDPNSPAAKKKYVSYNNLVI

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

128.7

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 — GRM7

Entrez GeneID	2917
GeneBank Accession#	NM_000844.2
Protein Accession#	NP_000835.1
Gene Name	GRM7
Gene Alias	FLJ40498, GLUR7, GPRC1G, MGLUR7, mGlu7
Gene Description	glutamate receptor, metabotropic 7
Omim ID	604101
Gene Ontology	Hyperlink

Gene Summary

L-glutamate is the major excitatory neurotransmitter in the central nervous system, and it activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors that have been divided into three groups on the basis of sequence homology, putative signal transduction mechanisms, and pharmacologic properties. Group I includes GRM1 and GRM5, and these receptors have been shown to activate phospholipase C. Group II includes GRM2 and GRM3, while Group III includes GRM4, GRM6, GRM7 and GRM8. Group II and III receptors are linked to the inhibition of the cyclic AMP cascade but differ in their agonist selectivities. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

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Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Alcohol Withdrawal Delirium](#)
- [Alcohol Withdrawal Seizures](#)
- [Alcoholism](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hearing Loss](#)
- [Mental Disorders](#)
- [Mental Retardation](#)

- [Presbycusis](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)