

Product datasheet for **TP762343**

Metabotropic Glutamate Receptor 4 (GRM4) (NM_000841) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human glutamate receptor, metabotropic 4 (GRM4), Leu126-Gln407, with N-terminal His tag, expressed in E.coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region(Leu126-Gln407) of GRM4
Tag:	N-His
Predicted MW:	31.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, pH 8.0, 8 M urea
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000832
Locus ID:	2914
UniProt ID:	Q14833 , A1L4F9
RefSeq Size:	3884
Cytogenetics:	6p21.31
RefSeq ORF:	2736
Synonyms:	GPRC1D; mGlu4; MGLUR4



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Summary:

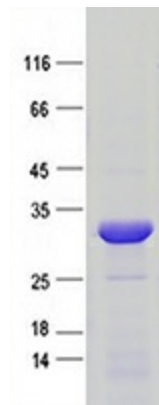
L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors, that have been divided into 3 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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

Protein Families:

Druggable Genome, GPCR, Transmembrane

Protein Pathways:

Neuroactive ligand-receptor interaction, Taste transduction

Product images:

Purified recombinant protein GRM4 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.