

## Product datasheet for TP525704

### Grin1 (NM\_008169) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse glutamate receptor, ionotropic, NMDA1 (zeta 1) (Grin1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR225704 representing NM_008169 Red=Cloning site Green=Tags(s)

MSTMHLLTFALLFSCSFARAACDPKIVNIGAVLSTRKHEQMFREAVNQANKRHGSKIQLNATSVTHKPN  
AIQMALSVCEDLISSQVYAILVSHPTPNDFHTPTVSYTAGFYRIPVLGLTTRMSIYSDKSIHLSFLRT  
VPPYSHQSSVWFEMMRVYNWNHIILLVSDDHEGRAAQKRLETLEERESKAEKVLQFDPGTKNVTALLME  
ARDLEARVIILSASEDDAATVYRAAAMLNMTGSGYVWLVGEREISGNALRYAPDGIIQLINGKNESAH  
ISDAVGVAQAVHELLEKENITDPPRGCVGNTNIWKTGPLFKRVLMSKYADGVTGRVEFNEDGDRKFAN  
YSIMNLQNRKLVQVGIYNGTHVIPNDRKIIWPGGETEKPRGYQMSTRLKIVTIHQEPFVYVKPTMSDGT  
KEEFTVNGDPVKKVICTGPNDTSPGSPRHTVPQCCYGFCDLLIKLARTMNFTYEVHLVADGKFGTQERV  
NNSNKKEWNGMMGELLSGQADMIVAPLTINNERAQYIEFSKPFKYQGLTILVKKEIPRSTLDSFMQPFQS  
TLWLLVGLSVHVVAVMLYLLDRFSPFGRFKVNSEEEEEEDALTSSAMWFSWGVLNLSGIGEGAPRSFSAR  
ILGMVWAGFAMIIVASYTANLAAFLVDRPEERITGINDPRLRNPSPDKFIYATVKQSSVDIYFRRQVELS  
TMYRHMEKHNYESAAEAIQAVRDNKLHAFIWDASVLEFEASQKCDLVTTGELFFRSFGFVGMRKDSWPWKQ  
NVLSILKSHENGFMEDLDKTWVRYQECDSRSNAPATLTFENMAGVFMLVAGGIVAGIFLIFIEIAYKRH  
KDARRKQMLAFAAVNVWRKNLQDRKSGRAEPDPKKKATFRAITSTLASSFKRRRSSKDTSTGGGRGALQ  
NQKDTVLPRAIEREEGQLQLCSRHRES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	105.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_032195</a>
<b>Locus ID:</b>	14810
<b>UniProt ID:</b>	<a href="#">P35438</a>
<b>RefSeq Size:</b>	3215
<b>Cytogenetics:</b>	2 17.14 cM
<b>RefSeq ORF:</b>	2814
<b>Synonyms:</b>	GluN1; GluRdelta1; GluRzeta1; M100174; NMD-R1; Nmdar; NMDAR1; NR1; Rgsc174
<b>Summary:</b>	Component of NMDA receptor complexes that function as heterotetrameric, ligand-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Channel activation requires binding of the neurotransmitter glutamate to the epsilon subunit, glycine binding to the zeta subunit, plus membrane depolarization to eliminate channel inhibition by Mg(2+) (PubMed:1532151, PubMed:8060614, PubMed:12008020). Sensitivity to glutamate and channel kinetics depend on the subunit composition (PubMed:12008020). [UniProtKB/Swiss-Prot Function]