

Product datasheet for **TP508559**

Pde9a (NM_008804) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse phosphodiesterase 9A (Pde9a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR208559 representing NM_008804
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MGAGSSSYRPKAIYLDIDGRIQKVVFSKYCNSSDIMDLFCIATGLPRNTTISLLTTDDAMVSIPTMPAN
SERTPYKVRPVAVKQVSEREELIQGLAQAQVAFSRAFKINELKAEVANHLAVLEKRVELEGLKVEIEK
CKSDIKKMREELAARNSRTNCPCKYSFLDNKLLTPRRDVPTYPKYLLSPETIEALRKPTFDVWLWEPNEM
LSCLEHMYHDLGLVRDFSINPITLRRWLLCVHDNYRNNPFHFRHCFVCVTQMMYSMVWLCGLQEKFSQMD
ILVLMTAAICHDLDPGYNNYQINARTELAVRYNDISPLENHHCAIAFQILARPECNIFASVPPEGFRQ
IRQGMITLILATDMARHAEIMDSFKEKMFENFDYSNEEHLTKMILIKCCDISNEVRPMEVAEPWVDCLL
EEYFMQSDREKSEGLPVAPFMDRDKVTKATAQIGFIKVLIPMFETVTKLFPVVEETMLRPLWESREHYE
ELKQLDDAMKELQKKTESLTSGAPENTTEKNRDAKDSEGHSPPN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	61.6 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
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_032830



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Locus ID: 18585

UniProt ID: [O70628](#), [Q8BSU4](#)

RefSeq Size: 2064

Cytogenetics: 17 B1

RefSeq ORF: 1602

Synonyms: PDE9A1

Summary: Specifically hydrolyzes the second messenger cGMP, which is a key regulator of many important physiological processes (PubMed:9624145). Highly specific: compared to other members of the cyclic nucleotide phosphodiesterase family, has the highest affinity and selectivity for cGMP. Specifically regulates natriuretic-peptide-dependent cGMP signaling in heart, acting as a regulator of cardiac hypertrophy in myocytes and muscle. Does not regulate nitric oxide-dependent cGMP in heart (PubMed:25799991). Additional experiments are required to confirm whether its ability to hydrolyze natriuretic-peptide-dependent cGMP is specific to heart or is a general feature of the protein (Probable). In brain, involved in cognitive function, such as learning and long-term memory (PubMed:22328573, PubMed:24746365).[UniProtKB/Swiss-Prot Function]