

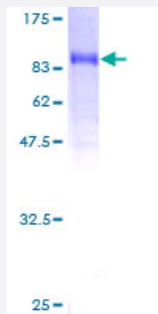
Full-Length

PDE9A (Human) Recombinant Protein (P01)

Catalog # H00005152-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PDE9A full-length ORF (AAH09047, 1 a.a. - 533 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSGSSSYRPAKMLDIDGRIQKVIFSKYCNSSDIMDLFCIATGLPRNTTISLLTTDDAMVSIDPTMPA
NSERTPYKVRPVAIKQLSEREELIQSVLAQVAEQFSRAFKINELKAEVANHLAVLEKRVELEGLKV
VEIEKCKSDIKKMREELAARSSRTNCPCKYSFLDNHKKLTTPRRDVPTYPKYLLSPETIEALRKPTFD
VWLWEPNEMLSCLEHMYHDLGLVRDFSINPVTLRRLFCVHDNYRNNPFHNRHCFCVAQMMY
SMVWLCSLQEKFSQTDILILMTAAICHDLDPGYNNYQINARTELVRYNDISPLENHHCVAFAQIL
AEPECNIFSNIPPDGFKQIRQGMITLILATDMARHAEIMDSFKEKMFNDYSNEEHMTLLKMLIKCC
DISNEVRPMEVAEPWVDCLEEFYMQSDREKSEGLPVAPFMDRDKVTKATAQIGFIKFLIPMFE
TVTKLFPMVEEIMLQPLWESRDYEEELKRIDDAMKELQKKTDSLTSKGATEKSRERSRDVKNSEG
DCA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

84.37

Interspecies Antigen Sequence

Mouse (93); Rat (92)

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 — PDE9A

Entrez GeneID	5152
GeneBank Accession#	BC009047
Protein Accession#	AAH09047
Gene Name	PDE9A
Gene Alias	HSPDE9A2
Gene Description	phosphodiesterase 9A
Omim ID	602973
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene catalyzes the hydrolysis of cAMP and cGMP to their corresponding monophosphates. The encoded protein plays a role in signal transduction by regulating the intracellular concentration of these cyclic nucleotides. Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	CGMP-specific 3',5'-cyclic phosphodiesterase type 9 OTTHUMP00000109390 OTTHUMP00000109391 OTTHUMP00000109393 OTTHUMP00000109394 OTTHUMP00000109397 OTTHUMP00000109399 OTTHUMP00000109400 phosphodiesterase PDE9A21

Pathway

- [Purine metabolism](#)

Disease

- [Depressive Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Psychiatric Status Rating Scales](#)
- [Tobacco Use Disorder](#)