

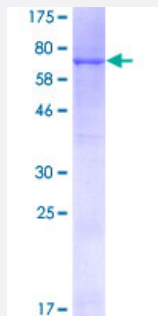
Full-Length

GAPDS (Human) Recombinant Protein (P01)

Catalog # H00026330-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GAPDS full-length ORF (AAH36373, 1 a.a. - 408 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSKRDVLTNVTVVQLLRQPCPVTRAPPPPEPKAEVEPQQPEPTPVREEIKPPPPPLPPHPATP
PPKMVSVARELTVGINGFGRIGRLVLRACMEKGVKVVAVNDPFIDPEYMYMFKYDSTHGRYKGS
VEFRNGQLVDNHEISVYQCKEPKQIPWRAVGSPYVVESTGVYLSIQAASDHISAGAQRVVISAPS
PDAPMFVMGVNENDYNPGSMNIVSNASCTTNCLAPLAKVIHERFGIVEGLMTTVHSYTATQKTVD
GPSRKAWRDGRGAHQNIIPASTGAAKAVTKVPELKGKLTGMAFRVPTPDVSVVDLTCRLAQAPAP
YSAIKEAVKAAAKGPMAGILAYTEDEVVSTDFLGDTSSIFDAKAGIALNDNFVKLISWYDNEYGYS
HRVVDLLRYMFSRDK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

70.62

Interspecies Antigen Sequence

Mouse (76); Rat (78)

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 — GAPDHS

Entrez GeneID	26330
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GeneBank Accession#	BC036373
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Protein Accession#	AAH36373
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Gene Name	GAPDHS
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Gene Alias	GAPD2, GAPDH-2, GAPDS, HSD-35
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Gene Description	glyceraldehyde-3-phosphate dehydrogenase, spermatogenic
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Omim ID	609169
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Gene Ontology	Hyperlink
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Gene Summary	This gene encodes a protein belonging to the glyceraldehyde-3-phosphate dehydrogenase family of enzymes that play an important role in carbohydrate metabolism. Like its somatic cell counterpart, this sperm-specific enzyme functions in a nicotinamide adenine dinucleotide-dependent manner to remove hydrogen and add phosphate to glyceraldehyde 3-phosphate to form 1,3-diphosphoglycerate. During spermiogenesis, this enzyme may play an important role in regulating the switch between different energy-producing pathways, and it is required for sperm motility and male fertility. [provided by RefSeq]
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Other Designations	glyceraldehyde-3-phosphate dehydrogenase, testis-specific spermatogenic cell-specific glyceraldehyde 3-phosphate dehydrogenase 2
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Publication Reference

- [Characterization and possible function of glyceraldehyde-3-phosphate dehydrogenase-spermatogenic protein GAPDHS in mammalian sperm.](#)

Margaryan H, Dorosh A, Capkova J, Manaskova-Postlerova P, Philimonenko A, Hozak P, Peknicova J.

Reproductive Biology and Endocrinology : RB&E 2015 Mar; 13(1):15.

Application: SDS-PAGE, WB-Ce, Human, Sperm cells

Disease

- [Alzheimer disease](#)
- [Genetic Predisposition to Disease](#)