

Recombinant Full Length Human GAPDHS Protein, GST-tagged

Cat. No. GAPDHS-5430HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GAPDS full-length ORF (AAH36373, 1 a.a. - 408 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	408 amino acids
Description	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]
Molecular Mass	70.62 kDa
AA Sequence	MSKRDIVLTNVTVVQLLRQPCPVTRAPPPPEPKAEVEPQPQPEPTPVREEIKPPPPP LPPHPATPPPKMVSVARELTVGINGFGRIGRLVLRACMEKGKVVAVNDPFIDPEYM VYMFKYDSTHGRYKGSVEFRNGQLVVDNHEISVYQCKEPKQIPWRAVGSPYVVEST GVYLSIQAASDHISAGAQRVVISAPSPDAPMFVMGVNENDYNPGSMNIVSNASCTTN

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CLAPLAKVIHERFGIVEGLMTTVHSYTATQKTVDGPSRKAWRDGRGAHQNIIPASTG
AAKAVTKVIPKLGKLTGMAFRVPTPDVSVVDLTCRLAQAPAPYSAIKEAVKAAAKGP
MAGILAYTEDEVVSTDFLGDTTHSSIFDAKAGIALNDNFVKLISWYDNEYGYSHRVVDL
LRYMFSDRK

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [GAPDHS glyceraldehyde-3-phosphate dehydrogenase, spermatogenic \[Homo sapiens \]](#)

Official Symbol [GAPDHS](#)

Synonyms GAPDHS; glyceraldehyde-3-phosphate dehydrogenase, spermatogenic; GAPDS; glyceraldehyde-3-phosphate dehydrogenase, testis-specific; GAPD2; GAPDH 2; spermatogenic glyceraldehyde-3-phosphate dehydrogenase; spermatogenic cell-specific glyceraldehyde 3-phosphate dehydrogenase 2; HSD-35; GAPDH-2;

Gene ID [26330](#)

mRNA Refseq [NM_014364](#)

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Protein Refseq	NP_055179
MIM	609169
UniProt ID	O14556

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