

## Product datasheet for PH305362

### GAPDHS (NM\_014364) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	GAPDHS MS Standard C13 and N15-labeled recombinant protein (NP_055179)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205362
Predicted MW:	44.5 kDa
Protein Sequence:	>RC205362 protein sequence Red=Cloning site Green=Tags(s)
	MSKRDIVLTNVTVVQLLRQPCPVTRAPPPPEPKAEVEPQPQPEPTPVREEIKPPPPPLPPHPATPPPKMV SVARELTVGINGFGRIGRLVLRACMEKGVVAVNDPFIDPEYMYMFKYDSTHGRYKGSVEFRNGQLVV DNHEISVYQCKEPKQIPWRAVGSPYVVESTGVYLSIQAASDHISAGAQRVVISAPSPDAPMFVMGVNEND YNPGSMNIVSNASCTTNCLAPLAKVIHERFGIVEGLMTTVHSYATQKTVDGPSRKAWRDGRGAHQNIIP ASTGAAKAVTKVPELKGKLTGMAFRVPTPDVSVVDLTCRLAQPAPYSAIKEAVKAAAKGPMAGILAYTE DEVVSTDFLGDTHSSIFDAKAGIALDNDFVKLISWYDNEYGYSHRVVDLLRYMFSRDK
	SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_055179</a></u>
RefSeq Size:	1492
RefSeq ORF:	1224
Synonyms:	GAPD2; GAPDH-2; GAPDS; HEL-S-278; HSD-35
Locus ID:	26330



[View online »](#)

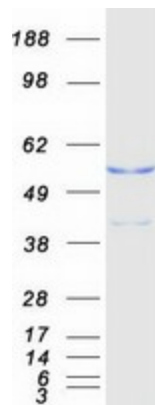
UniProt ID: [O14556](#), [A0A0K0K1K1](#)

Cytogenetics: 19q13.12

**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, Jul 2008]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified GAPDHS protein (Cat# [TP305362]). The protein was produced from HEK293T cells transfected with GAPDHS cDNA clone (Cat# [RC205362]) using MegaTran 2.0 (Cat# [TT210002]).