

# Recombinant human GAPDH protein

Catalog Number: GDH0801

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-335aa

**UniProt No.**

P04406

**NCBI Accession No.**

NP\_002037

**Alternative Names**

Glyceraldehyde-3-phosphate dehydrogenase, G3PD, GAPD, MGC88685, Glyceraldehyde-3-phosphate dehydrogenase, GAPDH, Glyceraldehyde-3-phosphate dehydrogenase 38 kDa BFA-dependent ADP-ribosylation substrate, Aging-associated gene 9 protein, BARS-38, cb609, EC 1.2.1.12, G3PDH, OCAS, p38 component, Glyceraldehyde 3 phosphate dehydrogenase, KNC-NDS6, MGC102544, MGC102546, MGC103190, MGC103191, MGC105239, MGC127711, OCT1 coactivator in S phase, 38-KD component, OTTHuMP00000174431, OTTHuMP00000174432, wu:fb33a10.

## PRODUCT SPECIFICATION

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**Molecular Weight**

36 kDa (335aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM EDTA, 1mM DTT, 20% glycerol

**Purity**

&gt; 95% by SDS-PAGE

**Tag**

Non-Tagged

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) is a catalytic enzyme commonly known to be involved in

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glycolysis. The enzyme exists as a tetramer composed of 36-kDa subunits and has various intracellular functions. GAPDH catalyzes the reversible reduction of 1, 3-bisphosphoglycerate to glyceraldehyde 3-phosphophate in the presence of NADPH. Besides functioning as a glycolytic enzyme in cytoplasm, evidence suggests that mammalian GAPDH is also involved in a great number of intracellular processes such as membrane fusion, microtubule bundling, phosphotransferase activity, nuclear RNA export, DNA replication and DNA repair. Recombinant GAPDH protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

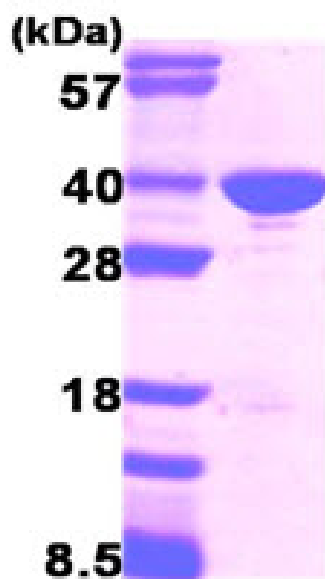
MGKVKVGVNG FGRIGRLVTR AAFNSGKVDI VAINDPFIDL NYMVYMFQYD STHGKFHGTV KAENGKLVIN GNPITIFQER  
DPSKIKWGDA GAEYVVESTG VFTTMEKAGA HLQGGAKRVI ISAPSADAPM FVMGVNHEKY DNSLKIISNA SCTTNCLAPL  
AKVIHDNFGI VEGLMTTVHA ITATQKTVDG PSGKLWRDGR GALQNIIPAS TGAAKAVGKV IPELNGKLTG MAFRVPTANV  
SVVDLTCRLE KPAKYDDIKK VVKQASEGPL KGILGYTEHQ VVSSDFNSDT HSSTFDAGAG IALNDHFVKL ISWYDNEFGY  
SNRVVDLMAH MASKE

## General References

Ralser M., et al. (2007). *J Biol.* 6(4):10  
Tisdale Ej., et al. (2007). *Traffic.* 8(6):733-41

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)