# **Recombinant human GAPDH protein**

Catalog Number: IBATGP3433



# **PRODUCT INPORMATION**

Expression system E.coli

**Domain** 1-335aa

**UniProt No.** P04406

NCBI Accession No. NP\_002037

## Alternative Names

Glyceraldehyde-3-phosphate dehydrogenase isoform 1, Peptidyl-cysteine S-nitrosylase GAPDH, GAPD, G3PD

# **PRODUCT SPECIFICATION**

**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 DTT, 1mM EDTA, 20% glycerol

#### Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

## **Biological Activity**

Specific activity is > 50unit/mg, and is defined as the amount of enzyme that convert 1.0 umole of glyceraldehyde-3-phosphate to 1,3-Bisphosphoglycerate per minute at pH 8.5 at 37C.

Tag Non-Tagged

**Application** SDS-PAGE, Enzyme Activity

## **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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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### Description

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

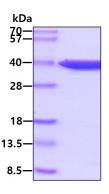
MGKVKVGVNG FGRIGRLVTR AAFNSGKVDI VAINDPFIDL NYMVYMFQYD STHGKFHGTV KAENGKLVIN GNPITIFQER DPSKIKWGDA GAEYVVESTG VFTTMEKAGA HLQGGAKRVI ISAPSADAPM FVMGVNHEKY DNSLKIISNA SCTTNCLAPL AKVIHDNFGI VEGLMTTVHA ITATQKTVDG PSGKLWRDGR GALQNIIPAS TGAAKAVGKV IPELNGKLTG MAFRVPTANV SVVDLTCRLE KPAKYDDIKK VVKQASEGPL KGILGYTEHQ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