# Human GAPDH Protein (His Tag)

**Catalog Number:** 10094-H07E



# **General Information**

#### Gene Name Synonym:

G3PD: GAPD: HEL-S-162eP

#### **Protein Construction:**

A DNA sequence encoding the human GAPDH (P04406) (Met 1-Glu 335) was expressed, with a polyhistidine tag at the N-terminus.

Source:

Expression Host: E. coli

## QC Testing

> 93 % as determined by SDS-PAGE **Purity:** 

Human

#### Endotoxin:

Please contact us for more information.

#### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

#### **Predicted N terminal:** Met

### **Molecular Mass:**

The recombinant human GAPDH comprises 346 amino acids and migrates as an approximately 38 kDa band in SDS-PAGE under reducing conditions as predicted.

#### Formulation:

Lyophilized from sterile 50mM Tris, 30% glycerol, pH 7.5

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

# **Usage Guide**

#### Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

#### Avoid repeated freeze-thaw cycles.

#### **Reconstitution:**

Detailed reconstitution instructions are sent along with the products.



# **Protein Description**

SDS-PAGE:

Glyceraldehyde 3-phosphate dehydrogenase (GAPDH or G3PDH) is an enzyme of about 37kDa that is consisdered as a cellular enzyme involved in glycolysis. It catelyzes the sixth step of glycolysis. Glyceraldehyde-3phosphate dehydrogenase (GAPDH) is a pleiotropic enzyme that is overexpressed in apoptosis and in several human chronic pathologies. Its role as a mediator for cell death has also been highlighted. A recent report suggests that GAPDH may be genetically associated with late-onset of Alzheimer's disease. Besides, deprenyl, which has originally been used as a monoamine oxidase inhibitor for Parkinson's disease, binds to GAPDH and displays neuroprotective actions.

#### References

1.Hara MR, et al. (2006) Neuroprotection by pharmacologic blockade of the GAPDH death cascade. PNA. 103 (10): 3887-9. 2.Hara MR, et al. (2006) GAPDH as a sensor of NO stress.Biochimica et Biophysica Acta (BBA) -Molecular Basis of Disease. 1762 (5): 502-9. 3. Tarze A, et al. (2007) GAPDH, a novel regulator of the pro-apoptotic mitochondrial membrane permeabilizationGAPDH and apoptosis. Oncogene. 26: 2606-20.

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For US Customer: Fax: 267-657-0217 •

Global Customer: Fax :+86-10-5862-8288

Tel: 215-583-7898 Tel:+86-400-890-9989

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