

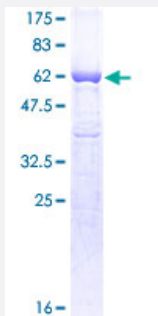
Full-Length

GAPDH (Human) Recombinant Protein (P02)

Catalog # H00002597-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GAPDH full-length ORF (NP_002037.2, 1 a.a. - 335 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGKVKVGVNGFGRIGRLVTRAAFNSGKVDVAINDPFIDLNYMVYMFQYDSTHGKFHGTVKAENG
KLNINGNPITIFQERDPSKIKWGDAGAEYVVESTGVFTTMEKAGAHLQGGAKRVISAPSADAPMFV
MGVNHEKYDNSLKIISNASCTTNCLAPLAKVIHDNFGVEGLMTTVHAITATQKTVDGPSGKLWRDG
RGALQNIIPASTGAAKAVGKVIPELNGKLTGMAFRVPTANVSVDLTCRLEKPAKYDDIKKVVKQA
SEGPLKGILGYTEHQVVSSDFNSDTHSSTFDAGAGIALNDHFVKLISWYDNEFGYSNRVVDLMAH
MASKE

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

62.5

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

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

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

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

Applications

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

Gene Info — GAPDH

Entrez GeneID [2597](#)

GeneBank Accession# [NM_002046.3](#)

Protein Accession# [NP_002037.2](#)

Gene Name GAPDH

Gene Alias G3PD, GAPD, MGC88685

Gene Description glyceraldehyde-3-phosphate dehydrogenase

Omim ID [138400](#)

Gene Ontology [Hyperlink](#)

Gene Summary The product of this gene catalyzes an important energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD). The enzyme exists as a tetramer of identical chains. Many pseudogenes similar to this locus are present in the human genome. [provided by RefSeq]

Other Designations OTTHUMP00000174431|OTTHUMP00000174432|aging-associated gene 9 protein|glyceraldehyde 3-phosphate dehydrogenase

Publication Reference

- [Glyceraldehyde-3-Phosphate Dehydrogenase \(GAPDH\) Protein-Protein Interaction Inhibitor Reveals a Non-catalytic Role for GAPDH Oligomerization in Cell Death.](#)

Qvit N, Joshi AU, Cunningham AD, Ferreira JC, Mochly-Rosen D.

The Journal of Biological Chemistry 2016 Apr; 291(26):13608.

Application: Func, PI, Rat, Rat heart extracts, Recombinant protein

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Nerve Degeneration](#)
- [Osteoporosis](#)