

Active Recombinant Mouse Gapdh protein, His-tagged (Bioactivity Validated)

Cat. No. Gapdh-21M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Gapdh, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	E.coli
Description	Gapdh, also known as glyceraldehyde 3-phosphate dehydrogenase, is an enzyme of 37kDa that catalyzes the sixth step of glycolysis and thus serves to break down glucose for energy and carbon molecules. In addition to this long established metabolic function, Gapdh has recently been implicated in several non-metabolic processes, including transcription activation, initiation of apoptosis, ER to Golgi vesicle shuttling, and fast axonal, or axoplasmic transport.
Form	Liquid. In Phosphate buffer saline (pH 7.4) containing 20% glycerol, 1mM DTT
Bio-activity	Specific activity is > 40 units/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 37centigrade.
Molecular Mass	38.2kDa (356aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SGLVPRGSH GSMVKVGVN GFGRIGRLVT RAAICSGKVE IVAINDPFID LNYMVYMFQY DSTHGKFNGT VKAENGKLVINGKPITIFQE

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RDPTNIKWGE AGAEYVVEST GVFTTMEKAG AHLKGGAKRV IISAPSADAP
 MFVMGVNHEK YDNSLKIVSN ASCTTNCLAP LAKVIHDNFG IVEGLMTTVH
 AITATQKTVD GPSGKLWRDG RGAAQNIIPA STGAAKAVGK VIPELNGKLT
 GMAFRVPTPN VSVVDLTCRLEKPAKYDDIK KVVKQASEGP LKGILGYTED
 QVVSCDFNSN SHSSTFDAGA GIALNDNFVK LISWYDNEYG YSNRVVDLMA
 YMASKE

Purity > 95% by SDS - PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.25mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [Gapdh glyceraldehyde-3-phosphate dehydrogenase \[Mus musculus \]](#)

Official Symbol [GAPDH](#)

Synonyms GAPDH; glyceraldehyde-3-phosphate dehydrogenase; peptidyl-cysteine S-nitrosylase
 GAPDH; Gapd

Gene ID [14433](#)

mRNA Refseq [NM_008084](#)

Protein Refseq [NP_032110](#)

Pathway Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved

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biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem;
Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate =>
fructose-6P, organism-specific biosystem; Gluconeogenesis, oxaloacetate =>

Function

glyceraldehyde-3-phosphate dehydrogenase (NAD+) (phosphorylating) activity;

