

Recombinant Rat Gapdh Protein, His-tagged

Cat. No. Gapdh-1562R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Gapdh Protein (Gly56-Phe284) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Gly56-Phe284
Description	This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. A similar protein in human and mouse has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The encoded protein was originally identified as a key glycolytic enzyme that converts D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate. Subsequent studies in human and mouse have assigned a variety of additional functions to the protein including nitrosylation of nuclear proteins. Many pseudogenes similar to this locus are found throughout the rat genome.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 25.5 kDa Accurate Molecular Mass: 26 kDa
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Gapdh glyceraldehyde-3-phosphate dehydrogenase [Rattus norvegicus (Norway rat)]
Official Symbol	Gapdh
Synonyms	GAPDH; glyceraldehyde-3-phosphate dehydrogenase; BARS-38; peptidyl-cysteine S-nitrosylase GAPDH; 38 kDa BFA-dependent ADP-ribosylation substrate; Gapd;
Gene ID	24383
mRNA Refseq	NM_017008
Protein Refseq	NP_058704

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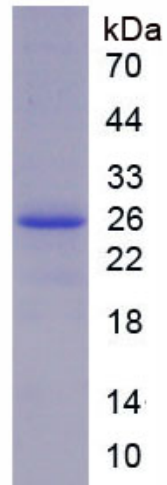
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UniProt ID

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