

Recombinant Mouse Gapdh Protein, Myc/DDK-tagged

Cat. No. Gapdh-3150M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length glyceraldehyde-3-phosphate dehydrogenase (Gapdh), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. The encoded protein 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 have assigned a variety of additional functions to the protein including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferrin receptor on the cell surface of macrophage. Alternative splicing results in multiple transcript variants. Many pseudogenes similar to this locus are found throughout the mouse genome.

Molecular Mass 35.8 kDa

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Gapdh glyceraldehyde-3-phosphate dehydrogenase [Mus musculus (house mouse)]
Official Symbol	Gapdh
Synonyms	Gapdh; glyceraldehyde-3-phosphate dehydrogenase; Ga; Gapd; glyceraldehyde-3-phosphate dehydrogenase; peptidyl-cysteine S-nitrosylase GAPDH; EC 1.2.1.12
Gene ID	14433
mRNA Refseq	NM_008084
Protein Refseq	NP_032110
UniProt ID	P16858

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