Data Sheet (Cat.No.TMPH-00370)

TargetMol

GAPDH Protein, Chicken, Recombinant (His)

General Information

Synonyms:	GAPDH;GAPD;Peptidyl-cysteine S-nitrosylase GAPDH;Glyceraldehyde-3-phosphate dehydrogenase
Protein Construction:	2-333 aa
Species:	Chicken
Expression Host:	E. coli
Accession:	P00356
Molecular Weight:	39.6 kDa (predicted)
AA Sequence:	VKVGVNGFGRIGRLVTRAAVLSGKVQVVAINDPFIDLNYMVYMFKYDSTHGHFKGTVKAENGKLVINGHAITI FQERDPSNIKWADAGAEYVVESTGVFTTMEKAGAHLKGGAKRVIISAPSADAPMFVMGVNHEKYDKSLKIVS NASCTTNCLAPLAKVIHDNFGIVEGLMTTVHAITATQKTVDGPSGKLWRDGRGAAQNIIPASTGAAKAVGKVI PELNGKLTGMAFRVPTPNVSVVDLTCRLEKPAKYDDIKRVVKAAADGPLKGILGYTEDQVVSCDFNGDSHSST FDAGAGIALNDHFVKLVSWYDNEFGYSNRVVDLMVHMASKE

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Glyceraldehyde-3-phosphate dehydrogenase is a key enzyme in

glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. Nuclear functions are probably due to the nitrosylase activity that mediates cysteine S-nitrosylation of nuclear target proteins such as SIRT1, HDAC2 and PRKDC.

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