

Recombinant Chicken Glyceraldehyde-3-phosphate dehydrogenase(GAPDH)

Catalog No: #AP70326

Package Size: #AP70326-1 20ug #AP70326-2 100ug #AP70326-3 1mg

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Description

Product Name	Recombinant Chicken Glyceraldehyde-3-phosphate dehydrogenase(GAPDH)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-333aaSequence Info:Full Length
Other Names	Peptidyl-cysteine S-nitrosylase GAPDH (EC:2.6.99.-)
Accession No.	P00356
Calculated MW	39.6 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	VKVGVNGFGRIGRLVTRAAVLSGKVQVVAINDPFIDLNYMVYMFKYDSTHGHFKGTVKAENGKLVINGHAITIF QERDPSNIKWADAGAEYVVESTGVFTTMEKAGAHKGGAKRVIISAPSADAPMFVMGVNHEKYDKSLKIVSNA SCTTNCLAPLAKVIHDNFGIVEGLMTTVHAITATQKTVDGPSGKLWRDGRGAAQNIIPASTGAAKAVGKVIPEL NGKLTGMAFRVPTPNVSVVDLTCRLEKPAKYDDIKRVVKAADGPLKGILGYTEDQVVSDFNGDSHSSTFDA GAGIALNDHFVKLVSWYDNEFGYSNRVVDLMVHMASKE
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

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. Modulates the organization and assembly of the cytoskeleton. Also 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 .

References

Complete nucleotide sequence of the messenger RNA coding for chicken muscle glyceraldehyde-3-phosphate dehydrogenase.Panabieres F., Piechaczyk M., Rainer B., Dani C., Fort P., Riaad S., Marty L., Imbach J.L., Jeanteur P., Blanchard J.-M.Biochem. Biophys. Res. Commun. 118:767-773(1984)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.