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Product Datasheet

Product Name Glyceraldehyde-3-Phosphate Dehydrogenase Human Recombinant

Cata No CB501367
Source Escherichia Coli.

Synonyms G3PD, GAPD, MGC88685, GAPDH, Glyceraldehyde-3-Phosphate Dehydrogenase.

Description

GAPDH is a catalytic enzyme normally known to play a role in glycolysis. GAPDH exists as a tetramer composed of 36-kDa subunits and has a range of intracellular functions. GAPDH catalyzes the reversible reduction of 1,3-bisphosphoglycerate to glyceraldehyde 3-phosphophate in the presence of NADPH. Besides functioning as a glycolytic enzyme in cytoplasm, GAPDH has function in intracellular processes such as membrane fusion, microtubule bundling, phosphotransferase activity, nuclear RNA export, DNA replication and DNA repair. GAPDH catalyzes a vital energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine

GAPDH Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 335 amino acids and having a molecular mass of 36 kDa.

dinucleotide (NAD). The enzyme exists as a

The GAPDH is purified by proprietary chromatographic techniques.

Physical Appearance

tetramer of identical chains.

Sterile filtered colorless solution.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Formulation

The GAPDH protein (1 mg/ml) contains 20mM Tris pH-8, 1mM EDTA, 1mM DTT, and 20% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Avoid multiple freeze-thaw cycles.

Sequence

MGKVKVGVNG FGRIGRLVTR AAFNSGKVDI
VAINDPFIDL NYMVYMFQYD STHGKFHGTV
KAENGKLVIN GNPITIFQER DPSKIKWGDA
GAEYVVESTG VFTTMEKAGA HLQGGAKRVI
ISAPSADAPM FVMGVNHEKY DNSLKIISNA
SCTTNCLAPL AKVIHDNFGI VEGLMTTVHA
ITATQKTVDG PSGKLWRDGR GALQNIIPAS
TGAAKAVGKV IPELNGKLTG MAFRVPTANV
SVVDLTCRLE KPAKYDDIKK VVKQASEGPL
KGILGYTEHQ VVSSDFNSDT HSSTFDAGAG
IALNDHFVKL ISWYDNEFGY SNRVVDLMAH
MASKE