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AR09029PU-L Recombinant human Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) (aa 1-335)

Alternate names: CDABP0047, GAPD, Glyceraldehyde-3-Phosphate Dehydrogenase

Quantity: 0.5 mg

Concentration: 1.0 mg/ml (determined by Bradford assay)

Background: Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) is a catalytic enzyme commonly known to be involved in glycolysis. The enzyme exists as a tetramer composed of 36-kDa subunits and has various 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, evidence suggests that mammalian GAPDH is also involved in a great number of intracellular processes such as membrane fusion, microtubule bundling, phosphotransferase activity, nuclear RNA export, DNA replication and DNA repair.

Uniprot ID: P04406

NCBI: NP_002037.2

GeneID: 2597

Species: Human

Source: E. coli

Format:
State: Liquid purified protein
Purity: >95% pure by SDS-PAGE
Buffer System: 20 mM Tris pH 8.0, 1 mM EDTA, 1 mM DTT, 20% glycerol

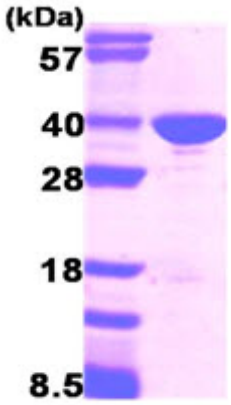
Description: Recombinant GAPDH protein was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGKVKVGVNG FGRIGRLVTR AAFNSGKVDI VAINDPFIDL NYMVYMFQYD STHGKFHGTV
KAENGKLVIN GNPITIFQER DPSKIKWGDA GAEYVVESTG VFTTMEKAGA HLQGGAKRVI
ISAPSADAPM FVMGVNHEKY DNSLKIISNA SCTTNCLAPL AKVIHDNFGI VEGLMTTVHA
ITATQKTVDG PSGKLWRDGR GALQNIIPAS TGAAKAVGKV IPELNGKLTG MAFRVPTANV
SVVDLTCRLE KPAKYDDIKK VVKQASEGPL KGILGYTEHQ VVSSDFNSDT HSSTFDAGAG
IALNDHFVKL ISWYDNEFGY SNRVVDLMAH MASKE
Molecular weight: 36 kDa (335 aa), confirmed by MALDI-TOF

Add. Information: NCBI Accession No.: NP_002037

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
Ralser M., et al. (2007).J Biol 21;6(4):10.
Tisdale Ej., et al. (2007).Traffic. 8;(6):733-41.

Pictures:



15% SDS-PAGE (3ug)