

GAPDH, human recombinant protein
GAPDH, Glyceraldehyde 3-phosphate dehydrogenase
Catalog # PBV11206r

Specification

GAPDH, human recombinant protein - Product info

Primary Accession [P04406.3](#)
Calculated MW **36.0 kDa** KDa

GAPDH, human recombinant protein - Additional Info

Gene ID **2597**
Gene Symbol **GD3**
Other Names
Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (EC 1.2.1.12) (Peptidyl-cysteine
S-nitrosylase GAPDH) (EC 2.6.99.-)

Gene Source **Human**
Source **E. coli**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Format
Liquid

Storage

-20°C; 1 mg/ml solution containing 20 mM Tris pH-8, 1 mM EDTA, 1 mM DTT, and 20% glycerol.

GAPDH, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GAPDH, human recombinant protein - Images

GAPDH, human recombinant protein - Background

Glyceraldehyde-3-Phosphate Dehydrogenase (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 dinucleotide (NAD). The enzyme exists as a tetramer of identical chains. Recombinant human GAPDH produced in E.Coli is a single, non-glycosylated polypeptide chain containing 335 amino acids and having a molecular mass of 36 kDa. The GAPDH is purified by proprietary chromatographic techniques.