Recombinant Human GAPDH

Cat. No. GAPDH-26354TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GAPDH, amino acids 1-335, MWt 35.9kDa.
Species	Human
Source	E.coli
ProteinLength	1-335 a.a.
Description	The product of this gene catalyzes an important 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. Many pseudogenes similar to this locus are present in the human genome.
Biological activity	Specific activity : 35.7 U/mgOne unit of activity of GAPDH is defined as the amount of enzyme required to convert 1μmole of NAD to NADH per min under standard assay conditions.
Form	Lyophilised:Reconstitute with HEPES or Tris buffer. Add 10% glycerol for longer term storage.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 20mM HEPES, pH 7.0

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Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the glyceraldehyde-3-phosphate dehydrogenase family.
Full Length	Full L.

GENE INFORMATION

Gene Name	GAPDH glyceraldehyde-3-phosphate dehydrogenase [Homo sapiens]
Official Symbol	GAPDH
Synonyms	GAPDH; glyceraldehyde-3-phosphate dehydrogenase; GAPD;
Gene ID	2597
mRNA Refseq	NM_002046
Protein Refseq	NP_002037
MIM	138400
Uniprot ID	P04406
Chromosome Location	12p13.31
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate =>

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Function	NAD binding; NADP binding; glyceraldehyde-3-phosphate dehydrogenase (NAD+) (phosphorylating) activity; glyceraldehyde-3-phosphate dehydrogenase (NAD+) (phosphorylating) activity; oxidoreductase activity;

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