

Recombinant Human GAPDH

Catalog No: #GP10013



Package Size: #GP10013-1 100ug

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Description

Product Name	Recombinant Human GAPDH
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 1-335 amino acids of human GAPDH
Target Name	glyceraldehyde-3-phosphate dehydrogenase
Other Names	G3PD; GAPD; HEL-S-162eP
Accession No.	Swissprot:P04406Gene Accession:BC001601
Uniprot	P04406
GeneID	2597;
Storage	-20~-80°C, pH 7.6 PBS

Background

This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. 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 encoded protein has additionally been identified to have uracil DNA glycosylase activity in the nucleus. Also, this protein contains a peptide that has antimicrobial activity against *E. coli*, *P. aeruginosa*, and *C. albicans*. Studies of a similar protein in mouse have assigned a variety of additional functions including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferrin receptor on the cell surface of macrophage. Many pseudogenes similar to this locus are present in the human genome. Alternative splicing results in multiple transcript variants.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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