

# Recombinant Human GNPDA1

**Cat. No.** GNPDA1-28076TH    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                        |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant full length Human GNPDA1, expressed in <i>Saccharomyces cerevisiae</i> , amino acids 1-289, 33 kDa,                                                                                                                                        |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>            | 1-289 a.a.                                                                                                                                                                                                                                             |
| <b>Description</b>              | Glucosamine-6-phosphate deaminase (EC 3.5.99.6) is an allosteric enzyme that catalyzes the reversible conversion of D-glucosamine-6-phosphate into D-fructose-6-phosphate and ammonium (Arreola et al.                                                 |
| <b>Form</b>                     | Liquid                                                                                                                                                                                                                                                 |
| <b>Purity</b>                   | >90% by SDS-PAGE                                                                                                                                                                                                                                       |
| <b>Storage buffer</b>           | Preservative: None<br>Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5                                                                                                              |
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.                                                                                                                                                         |
| <b>Sequences of amino acids</b> | MKLIILEHYSQASEWAACYIRNRIIQFNPGPEKYFTLGLP TGSTPLGICYKKLIEYYKNG<br>DLSFKYVKTFNMDEYVGLP RDHPESYHSFMWNNFFKHIDHPENTHILDGNAVDLQ<br>A ECDAFEEKIKAAGGIELFVGIGPDGHIAFNEPGSSLVSR TRVKTLAMDTILANARF<br>FDGELTKVPTMALTVGVGTVM DAREVMILITGAHKAFALYKAIEEGVNHMWTVSFAF |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QQH PRTVFVCDEDATLELKVKTVKY

**Sequence Similarities**

Belongs to the glucosamine/galactosamine-6-phosphate isomerase family.

**Full Length**

Full L.

## GENE INFORMATION

**Gene Name**

GNPDA1 glucosamine-6-phosphate deaminase 1 [ Homo sapiens ]

**Official Symbol**

GNPDA1

**Synonyms**

GNPDA1; glucosamine-6-phosphate deaminase 1; glucosamine 6 phosphate isomerase , GNPI; glucosamine-6-phosphate isomerase 1; glucosamine 6 phosphate deaminase; GNPDA; GPI; HLN; KIAA0060; oscillin;

**Gene ID**

10007

**mRNA Refseq**

NM\_005471

**Protein Refseq**

NP\_005462

**MIM**

601798

**Uniprot ID**

P46926

**Chromosome Location**

5q21

**Pathway**

Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Metabolic pathways,

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organism-specific biosystem;

**Function**

glucosamine-6-phosphate deaminase activity; hydrolase activity;

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