

AR09639PU-L**Human GNPDA1 (1-289, His-tag) - Purified****Alternate names:**

GNPI, GlcN6P deaminase 1, Glucosamine-6-phosphate deaminase 1, Glucosamine-6-phosphate isomerase 1, HLN, KIAA0060, Oscillin

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

Glucosamine-6-phosphate isomerase 1, also known as GNPDA1, catalyzes the conversion of glucosamine-6-phosphate to fructose-6-phosphate. It is ubiquitously expressed with highest expression in testes, ovary and heart. In addition, GNPDA1 triggers calcium oscillations in mammalian eggs. These oscillations serve as the essential trigger for egg activation and early development of the embryo.

Uniprot ID:[P46926](#)**NCBI:**[NP_005462](#)**GeneID:**[10007](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >90% by SDS - PAGE**Buffer System:** 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 50mM NaCl**Description:**

Recombinant human GNPDA1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MKLIILEHYS QASEWAAKYI RNRIIQFNPG PEKYFTLGLP
TGSTPLGICYK KLIEYYKNGD LSFKYVKTFN MDEYVGLPRD HPESYHSFMW NNFVKHIDIH
PENTHILDGN AVDLQAECDA FEEKIKAAGG IELFVGGIGP DGHIAFNPEG SSLVSRTRVK
TLAMDTILAN ARFFDGELTK VPTMALTVGV GTVMDAREVM ILITGAHKAF ALYKAIEEGV
NHMWTVSAFQ QHPRTVVFCD EDATLELVK TVKYFKGLML VHNKLVDPY SIKEKETEK
QSSKKPYSD

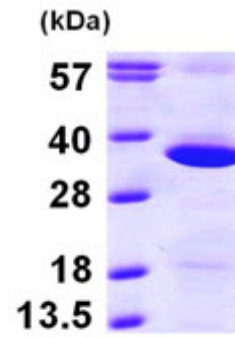
Molecular weight: 34.8 kDa (309aa), confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

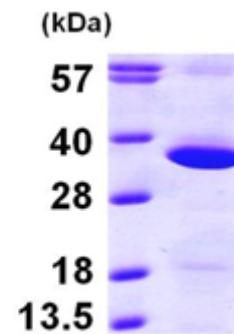
Shelf life: one year from despatch.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human GNPDA1, 1- 289 aa,
His-tagged



15% SDS-PAGE (3ug)