





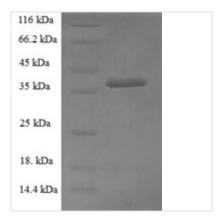
Recombinant Human Glucosamine-6-phosphate isomerase 1 (GNPDA1)

Product Code	CSB-EP009630HU
Relevance	Ses to trigger calcium oscillations in mammalian eggs. These oscillations serve as the essential trigger for egg activation and early development of the bryo .
Abbreviation	Recombinant Human GNPDA1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P46926
Alias	Glucosamine-6-phosphate deaminase 1 ;GNPDA 1 ;GlcN6P deaminase 1Oscillin
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MKLIILEHYSQASEWAAKYIRNRIIQFNPGPEKYFTLGLPTGSTPLGCYKKLIEYY KNGDLSFKYVKTFNMDEYVGLPRDHPESYHSFMWNNFFKHIDIHPENTHILDG NAVDLQAECDAFEEKIKAAGGIELFVGGIGPDGHIAFNEPGSSLVSRTRVKTLA MDTILANARFFDGELTKVPTMALTVGVGTVMDAREVMILITGAHKAFALYKAIEE GVNHMWTVSAFQQHPRTVFVCDEDATLELKVKTVKYFKGLMLVHNKLVDPLY SIKEKETEKSQSSKKPYSD
Research Area	Metabolism
Source	E.coli
Target Names	GNPDA1
Expression Region	1-289aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	36.7kDa
Protein Length	Full Length
Image	









(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

This Human GNPDA1 recombinant protein was produced in E.coli, where the gene sequence encoding Human GNPDA1 (1-289aa) was expressed with the N-terminal 6xHis tag. The purity of this GNPDA1 protein was greater than 90% by SDS-PAGE.

Glucosamine-6-phosphate isomerase 1 (GNPDA1) is an enzyme that is involved in energy metabolism. It has been studied in the context of hepatocellular carcinoma (HCC), a type of liver cancer. High expression of GNPDA1 has been found to be associated with advanced tumor stage, TNM stage, and grade in HCC patients. In HCC cells, GNPDA1 promotes proliferation, migration, and invasion, while inhibiting apoptosis. This suggests that GNPDA1 may serve as a prognostic biomarker and potential therapeutic target for HCC.

Reference:

Li D, Cheng X, Zheng W, Chen J. Glucosamine-6-Phosphate Isomerase 1 Promotes Tumor Progression and Indicates Poor Prognosis in Hepatocellular Carcinoma. Cancer Manag Res. 2020 Jun 24;12:4923-4935.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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