

GNPDA1, 1-289aa, Human, His tag, E.coli

Cat.NO.: TP02298

3th Edition

Synonyms:Glucosamine-6-phosphate isomerase 1, GNP1, GNPDA, GNPI, GPI, HLN, Oscillin

Description:Glucosamine-6-phosphate isomerase 1, also known as GNPDA1, catalyzes the conversion of glucosamine-6-phosphate to fructose-6-phosphate, a reaction that under physiological conditions proceeds to the formation of fructose-6-phosphate. It exist is ubiquitously expressed with highest expression in testes, ovary and heart. In addition, GNPDA1 triggers calcium oscillations in mammalian eggs.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT,20% glycerol, 50mM NaCl

Molecular Weight:34.8 kDa (309aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMCLIILEHYSQASEWAAKYIRNRIIQFNPGPEKYFTLGLPTGSTPLGCYKKLIEYYK
NGDLSFKYVKTFNMDEYVGLPRDHPESYHSFMWNNFFKHIDIHPENTHILDGNAVDLQAECDAFEKIKAAAGGIELF
VGGIGPDGHIAFNEPGSSLVSRTRVKTLAMDTILANARFFDGELTKVPTMALTGVGTVMDAREVMILITGAHKAFAL
YKAIEEGVNHMWTVSAFQQHPRTVFCDEDATLELKVKTVMKYFKGLMLVHNKLVDPYLSIKEKETEKESQSSKPKPYS
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Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.