
Product Data Sheet

Product Name: GNPDA1 Human
 Cat. No.: GP21704
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GNP1; GNPDA; GNPI; GPI; HLN; Oscillin.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MKLIILEHYS QASEWAAKYI RNRIQFNPG PEKYFTLGLP TGSTPLGICYK KLIYYKNGD LSFKYVKTFNMDEYVGLPRD HPESYHSFMW NNFFKHIDIH PENTHILDGN AVDLQAECDA FEEKIKAAGG IELFVGGIGP DGHIAFNEPG SSLVSRTRVK TLAMDTILAN ARFFDGELTK VPTMALTGVG GTVMDAREVM ILITGAHKAF ALYKAIEEGV NHMWTVSAFQ QHPRTVFVCD EDATLELKVKTVKYFKGLML VHNKLVDPY SIKEKETEK QSSKKPYSD.		
Formulation	1 mg/ml solution containing 20mM Tris Hcl buffer pH-8, 1mM DTT, 50mM NaCl and 20% glycerol.		

Introduction

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. GNPDA1 is widely expressed with highest expression in testes, ovary and heart. GNPDA1 triggers calcium oscillations in mammalian eggs. These oscillations are as the necessary trigger for egg activation and early development of the embryo.

Stability

GNPDA1 Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C .Please prevent freeze-thaw cycles.

Background

GNPDA1 Recombinant Human produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 309 amino acids (1-289) and having a molecular mass of 34.8 kDa. GNPDA1 is fused to a 20 amino acid His-Tag at N-terminus and purified by

Caution: Product has not been fully validated for medical applications. For research use only.

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proprietary chromatographic techniques.

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