

# Glyceraldehyde-3-phosphate dehydrogenase, cytosolic 1 (GAPC1), Recombinant Protein

Cat RP10623

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

## Species

## Full Product Name

Recombinant Zea mays Glyceraldehyde-3-phosphate dehydrogenase, cytosolic 1 (GAPC1)

## Product Gene Name

GAPC1 recombinant protein

## Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

## Sequence

MGKIKIGING FGRIGRLVAR VALQSEDVEL VAVNDPFITT DYMTYMFKYD TVHGHWKHSD ITLKDSKTLT  
FGDKPVTVFG IRNPEEIPWG EAGA EYVVES TGVFTDKDKA AAHLKGGAKK VVISAPSKDA PMFVVGVNED  
KYTSDVNIVS NASCTTNCLA PLAKVIHDFN GIVEGLMTTV HAITATQKTV DGPSAKDWRG GRAASFNIIP  
SSTGAAKAVG KVL PDLNGKL TGMSFRVPTV DVSVVDLTVR IEKGASYEDI KKA IKAASEG PLKGIMGYVE  
EDLVSTDFLG DSRSSIFDAK AGIALNDHFV KLVSWYDNEW GYSNRVVDLI RHMFKTQ

## Sequence Positions

1-337, Full length protein

## Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

## Host

E Coli or Yeast or Baculovirus or Mammalian Cell

## Molecular Weight

36,523 Da

## Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

## Protein Family

Glyceraldehyde-3-phosphate dehydrogenase

## NCBI Accession #

NP\_001105413.1

## NCBI GI #

162460999

## NCBI GenBank Nucleotide #

NM\_001111943.1

## NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Cat *RP10623*

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

542367 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg

(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

**NCBI Official Full Name**  
glyceraldehyde-3-phosphate dehydrogenase 1, cytosolic

## NCBI Official Symbol

LOC542367

## NCBI Official Synonym Symbols

GAPC; GPC1; GAPC1; GAPDH; GRMZM2G046804

## NCBI Protein Information

glyceraldehyde-3-phosphate dehydrogenase 1, cytosolic

## UniProt Gene Name

GAPC1

## UniProt Synonym Gene Names

GAPC; GPC1

## UniProt Protein Name

Glyceraldehyde-3-phosphate dehydrogenase 1, cytosolic

## UniProt Primary Accession #

P08735

## UniProt Related Accession #

P08735

## UniProt Comments

Key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate. Essential for the maintenance of cellular ATP levels and carbohydrate metabolism .

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