

## GAPC1, cytosolic Protein, Arabidopsis thaliana, Recombinant (His &amp; Myc)

## General Information

Synonyms:	GAPDH;NAD-dependent glyceraldehydephosphate dehydrogenase C subunit 1;GAPC; cytosolic;Glyceraldehyde-3-phosphate dehydrogenase GAPC1, cytosolic;GAPC1
Protein Construction:	1-338 aa
Species:	Arabidopsis thaliana
Expression Host:	E. coli
Accession:	P25858
Molecular Weight:	44.4 kDa (predicted)
AA Sequence:	MADKKIRIGINGFGRIGRLVARVVLQRDDVELVAVNDPFIITEYMTYMFKYDSVHGQWKHNLKIKDEKTLF GEKPVTVFGIRNPEDIPWAEAGADYVVESTGVFTDKDKAAHLKGGAKKVVISAPSKDAPMFVGVNEHEYK SDLDIVSNASCTTNCLAPLAKVINDRFGIVEGLMTTVHSITATQKTVDGPSMKDWRGGRAASFNIIPSSTGAAK AVGKVLPALNGKLTGMSFRVPTVDVSVVDLTVRLEKAATYDEIKKAIKEESEGLKLGILGYTEDDVVSTDFVGD NRSSIFDAKAGIALSDKFVKLVSWYDNEWGYSSRVVDLIVHMSKA

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

## A DRUG SCREENING EXPERT

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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. Required for full fertility. Involved in response to oxidative stress by mediating plant responses to abscisic acid (ABA) and water deficits through the activation of PLDDELTA and production of phosphatidic acid (PA), a multifunctional stress signaling lipid in plants. Associates with FBA6 to the outer mitochondrial membrane, in a redox-dependent manner, leading to binding and bundling of actin. Actin binding and bundling occurs under oxidizing conditions and is reversible under reducing conditions. May be part of a redox-dependent retrograde signal transduction network for adaptation upon oxidative stress. Binds DNA in vitro.

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