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Datasheet for ABIN5712025

## G3P Protein (AA 3-335, partial) (GST tag)

### 1 Image

#### Overview

Quantity:	100 µg
Target:	G3P
Protein Characteristics:	AA 3-335, partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This G3P protein is labelled with GST tag.
Application:	SDS-PAGE (SDS)

#### Product Details

Sequence:	KVKVGVNGFG RIGRLVTRAA FNSGKVDIVA INDPFIDLNY MVYMFQYDST HGKFHGTVKA ENGKLVINGN PITIFQERDP SKIKWGDAGA EYVVESTGVF TTMEKAG AHL QGGAKRVIIS APSADAPMFV MGVNHEKYDN SLKIISNASC TTNCLAPLAK VIHDNFGIVE GLMTTVHAIT ATQKTVDGPS GKLWRDGRGA LQNIIPASTG AAKAVGKVIP ELNGKLTGMA FRVPTANVSV VDLTCRLEKP AKYDDIKKVV KQASEGPLKG ILGYTEHQVV SDFNSDTHS STFDAGAGIA LNDHFKVLIS WYDNEFGYSN RVVDLMAHMA SKE
Purification:	SDS-PAGE
Purity:	> 90 %

#### Target Details

Target:	G3P
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## Target Details

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Alternative Name: [G3P \(G3P Products\)](#)

Target Type: Phage Protein

Background: Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. Nuclear functions are probably due to the nitrosylase activity that mediates cysteine S-nitrosylation of nuclear target proteins such as SIRT1, HDAC2 and PRKDC. Modulates the organization and assembly of the cytoskeleton. Facilitates the CHP1-dependent microtubule and membrane associations through its ability to stimulate the binding of CHP1 to microtubules. Glyceraldehyde-3-phosphate dehydrogenase is a 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. Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes. Upon interferon-gamma treatment assembles into the GAIT complex which binds to stem loop-containing GAIT elements in the 3'-UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresses their translation.<sup>3</sup> Publications

Molecular Weight: 63.2 kDa

UniProt: [P04406](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

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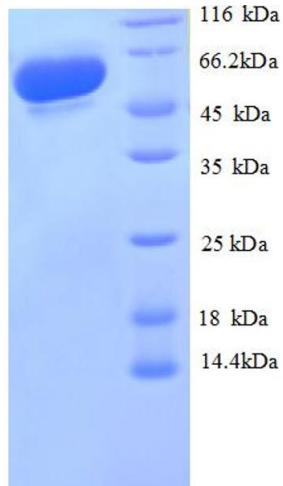
Format: Liquid

Concentration: 0.1-2 mg/mL

Buffer: 20 mM Tris-HCl based buffer, pH 8.0

Storage: -80 °C, 4 °C, -20 °C

Storage Comment: Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.



### SDS-PAGE

Image 1.