

**Catalog No.: RP00775** **Recombinant**

Species	Gene ID	Swiss Prot
Human	2597	P04406

## NO-Tag

GAPDH; GAPD; CDABP0047; OK/SW-cl.12

<b>Source</b> <i>E. coli</i>	<b>Purification</b> ≥ 90% as determined by reducing SDS-PAGE.
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Calculated MW	Observed MW
35.9 kDa	35-45 kDa

< 0.01 EU/μg of the protein by LAL method.

Lyophilized from 0.22µm filtered solution  
in PBS (pH 7.4).

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

GAPDH is an enzyme of about 37kDa that is considered as a cellular enzyme involved in glycolysis. It catalyzes the sixth step of glycolysis. Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) is a pleiotropic enzyme that is overexpressed in apoptosis and in several human chronic pathologies. Its role as a mediator for cell death has also been highlighted. A recent report suggests that GAPDH may be genetically associated with late-onset of Alzheimer's disease. Besides, deprenyl, which has originally been used as a monoamine oxidase inhibitor for Parkinson's disease, binds to GAPDH and displays neuroprotective actions.

Recombinant Human GAPDH Protein is produced by *E. coli* system. The target protein is expressed with sequence (Gly2-Glu335) of Human GAPDH(Accession #P04406) fused with No Tag.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

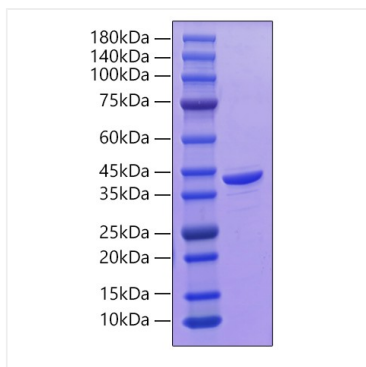
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## Validation Data

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Recombinant Human GAPDH Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.