Recombinant Human GAPDH Protein



Catalog No.: RP00775 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 2597 P04406

Tags NO-Tag

Synonyms

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

Product Information

Source Purification

E. coli ≥ 90% as determined by reducing SDS-PAGE.

Calculated MW Observed MW

35.9 kDa 35-45 kDa

Endotoxin

< 0.01 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from $0.22\mu m$ filtered solution in PBS (pH 7.4).

Reconstitution

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

GAPDH is an enzyme of about 37kDa that is consisdered as a cellular enzyme involved in glycolysis. It catelyzes 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.

Basic Information

Description

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.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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.

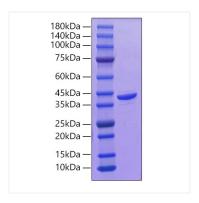
Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

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Validation Data



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