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Produktinformation



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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GAPDH Protein, Human, Recombinant (His)

General Information

Synonyms:	G3PD;GAPD;HEL-S-162eP;glyceraldehyde-3-phosphate dehydrogenase
Protein Construction:	The Human GAPDH (P04406) (Met 1-Glu 335) was expressed, with a polyhistidine tag at the N-terminus.
Species:	Human
Expression Host:	E. coli
Accession:	P04406
Molecular Weight:	38 kDa (predicted)

QC Testing

Biological Activity:	Measured by its ability to catalyze D-glyceraldehyde 3-phosphate to 3-phosphoglycerate , the specific activity is >2500pmols/min/ug.
Purity:	> 93 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile 50 mM Tris, 30% glycerol, pH 7.5.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

Protein Background

Glyceraldehyde 3-phosphate dehydrogenase (GAPDH or G3PDH) 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.

Reference

Hara MR, et al. (2006) Neuroprotection by pharmacologic blockade of the GAPDH death cascade. PNA. 103 (10): 3887-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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