



# Recombinant Protein Technical Manual

## Recombinant Human GAPDH Protein (His Tag)

RPES2182

### Product Data:

**Product SKU:** RPES2182

**Size:** 50µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P04406

### Protein Information:

**Molecular Mass:** 38 kDa

**AP Molecular Mass:** 38 kDa

**Tag:** N-His

**Bio-activity:**

**Purity:** > 93 % as determined by reducing SDS-PAGE.

**Endotoxin:** Please contact us for more information.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile 50mM Tris, 30% glycerol, pH 7.5

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** G3PD;GAPD;HEL-S62eP

## Immunogen Information:

**Sequence:** Met 1-Glu 335

## 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.