Recombinant mouse GAPDH protein

Catalog Number: ATGP3434

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-333aa

UniProt No.
P16858

NCBI Accession No.
NP_032110

Alternative Names
Glyceraldehyde-3-phosphate dehydrogenase isoform 2, G3PD, GAPD, HEL-S-162eP, Peptidyl-cysteine S-nitrosylase GAPDH

PRODUCT SPECIFICATION

Molecular Weight
38.2 kDa (356aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

Purity
> 95% by SDS-PAGE

Biological Activity
Specific activity is > 40unit/mg, and is defined as theamount of enzyme that convert 1.0 umole of glyceraldehyde-3-phosphate to 1,3-Bisphosphoglycerate per minute at pH 8.5 at 37C.

Tag
His-Tag

Application
SDS-PAGE, Enzyme Activity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Gapdh, also known as glyceraldehyde 3-phosphate dehydrogenase, is an enzyme of 37kDa that catalyzes the sixth step of glycolysis and thus serves to break down glucose for energy and carbon molecules. In addition to

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this long established metabolic function, Gapdh has recently been implicated in several non-metabolic processes, including transcription activation, initiation of apoptosis, ER to Golgi vesicle shuttling, and fast axonal, or axoplasmic transport. Recombinant mouse Gapdh, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

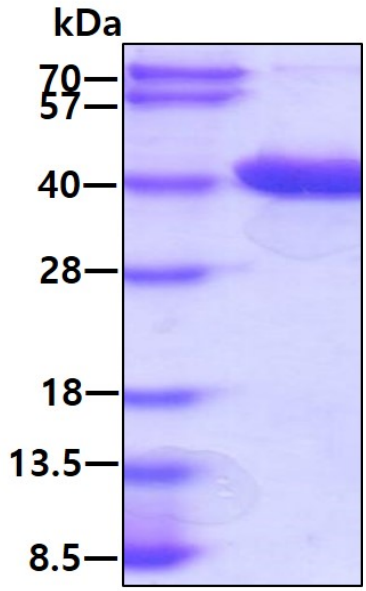
<MGSSHHHHHH SSGLVPRGSH MGS>MVKVGVN GFGRIGRLVT RAAICSGKVE IVAINDPFID LNYMVYMFQY DSTHGKFNGT VKAENGKLVI NGKPITIFQE RDPTNIKWGE AGAEYVVEST GVFTTMEKAG AHLKGGAKRV IISAPSADAP MFVMGVNHEK YDNSLKIVSN ASCTTNCLAP LAKVIHDNFG IVEGLMTTVH AITATQKTVD GPSGKLWRDG RGAAQNIIPA STGAAKAVGK VIPELNGKLT GMAFRVPTPN VSVVDLTCRL EKPAKYDDIK KVVKQASEGP LKGILGYTED QVVSCDFNSN SHSSTFDAGA GIALNDNFVK LISWYDNEYG YSNRVVDLMA YMASKE

General References

Tarze A, Deniaud A, et al. (2007). Oncogene. 26(18):2606-20.
Tisdale EJ, et al. (2007). Traffic. 8(6):733-41.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.