
GAPDH, 1-333aa, Mouse, His-tag, E.coli (Bioactivity Validated)

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3th Edition

Synonyms: Glyceraldehyde-3-phosphate dehydrogenase isoform 2, G3PD, GAPD, HEL-S-162eP.

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 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.

Form: Liquid. In Phosphate buffer saline (pH 7.4) containing 20% glycerol, 1mM DTT

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

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSMVKVGVNGFGRIGRLVTRAAICSGKVEIVAINDPFIDLNYMVYMFQYDSTHG
KFNGTVKAENGKLVINGKPITIFQERDPTNIKWGEAGA EYVVESTGVFTTMEKAGAHKGGAKRVIISAPSADAPMF
VMGVNHEKYDNSLKIVSNASCTTNCLAPLAKVIHDNFGIVEGLMTTVHAITATQKTVDGPSGKLWRDGRGAAQNIIP
ASTGAAKAVGKVIPELNGKLTGMAFRVPTPNVSVDLTCRLEKPAKYDDIKKVVKQASEGPLKGILGYTEDQVVSCD
FNSNSHSSTFDAGAGIALNDNFVKLISWYDNEYGYSNRVVDLMAYMASKE

Purity: > 95% by HPLC

Concentration: 0.25mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.