

**GUK1, 1-197aa, Human, His tag, E.coli**

**Cat.NO.: TP02375**

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3th Edition

**Synonyms:**Guanylate kinase, GMK, GMP kinase

**Description:**GUK1, also known as GMK, belongs to the guanylate kinase family. This protein exists as a monomer that catalyzes the ATP-dependent conversion of GMP to GDP, thereby playing an essential role in the recycling of GMP. Via its catalytic activity, GUK1 is thought to participate in regulating the supply of guanine nucleotides to signal transduction pathways.

**Form:**Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol 1mM DTT, 0.1M NaCl.

**Molecular Weight:**23.9 kDa (217aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMSGPRPVVLSGPSGAGKSTLLKRLQEHSGIFGFSVSHHTTRNPRPGEENGKDYY  
FVTREVMQRDIAAGDFIEHAEFSGNLYGTSKVAVQAVQAMNRCVLDVDLQGVNRNIKATDLRPIYISVQPPSLHVLEQ  
RLRQRNTETEEESLVKRLAAQAADMESSEKPEGLFDVVIINDSLDQAYAEALKEALSEEIKKAQRTGA

**Purity:**> 95% by HPLC

**Concentration:**1 mg/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.