

GUK1, 1-197aa, Human, His-tag, E.coli (Bioactivity Validated)

Cat.NO.: TP02376

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. Overexpression of GUK1 is associated with pituitary adenocarcinomas, suggesting that GUK1 is involved in tumorigenesis. Recombinant human GUK1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

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:

MGSSHHHHHSSGLVPRGSHMSGPRPVVLSGPSGAGKSTLLKRLQEHSGIFGFSVSHTRNPRPGEENGKDY
FVTREVMQRDIAAGDFIEHAEFSGNLYGTSKVAVQAVQAMNRCVLDVLDLQGVNRNIKATDLRPIYISVQPPSLHVLEQ
RLRQRNTETEESLVKRLAAAQADMESSEKPEGLFDVVIINDSLDQAYAEALKEALSEEIKKAQRTGA

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.