

Recombinant Human GUK1, GST-tagged

Cat. No. GUK1-13623H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human GUK1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 1-197a.a.

Description The protein encoded by this gene is an enzyme that catalyzes the transfer of a phosphate group from ATP to guanosine monophosphate (GMP) to form guanosine diphosphate (GDP). The encoded protein is thought to be a good target for cancer chemotherapy. Several transcript variants encoding different isoforms have been found for this gene.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name GUK1 guanylate kinase 1 [Homo sapiens]

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Official Symbol	GUK1
Synonyms	GUK1; guanylate kinase 1; guanylate kinase; GMP kinase; ATP:GMP phosphotransferase; GMK; FLJ42686; FLJ43710;
Gene ID	2987
mRNA Refseq	NM_000858
Protein Refseq	NP_000849
MIM	139270
UniProt ID	Q16774
Chromosome Location	1q32-q41
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Synthesis and interconversion of nucleotide di- and triphosphates, organism-specific biosystem;
Function	ATP binding; guanylate kinase activity; kinase activity; nucleotide binding; transferase activity;

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