

## Active Recombinant Human GUK1 protein, His-tagged

Cat. No. GUK1-185H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GUK1(Ser2-Ala197) fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	2-197 a.a.
<b>Description</b>	GUK1, also known as GMP kinase, belongs to the guanylate kinase family. This protein exists as a monomer and catalyzes the ATP-dependent conversion of GMP to GDP, thereby playing an essential role in the recycling of GMP. Via its catalytic activity, GUK1 participates in regulating the supply of guanine nucleotides including cGMP to signal transduction pathways. GUK1 is widely expressed. Overexpression of GUK1 is associated in pituitary adenomas. The enzymatic activity of the recombinant human GUK1 is measured using a phosphatase-coupled method.
<b>Predicted N Terminal</b>	Met
<b>Form</b>	Supplied as a 0.2 µm filtered solution in Tris and NaCl.
<b>Bio-activity</b>	Measured by its ability to transfer phosphate from ATP to GMP. The specific activity is >7,500 pmol/min/µg.
<b>Molecular Mass</b>	Predicted Molecular Mass: : 23 kDa;

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	SDS-PAGE: 24 kDa, reducing conditions.
<b>Endotoxin</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.

## GENE INFORMATION

<b>Gene Name</b>	GUK1 guanylate kinase 1 [ Homo sapiens ]
<b>Official Symbol</b>	GUK1
<b>Synonyms</b>	GUK1; guanylate kinase 1; guanylate kinase; GMP kinase; ATP:GMP phosphotransferase; GMK; FLJ42686; FLJ43710;
<b>Gene ID</b>	2987
<b>mRNA Refseq</b>	NM_000858
<b>Protein Refseq</b>	NP_000849
<b>MIM</b>	139270
<b>UniProt ID</b>	Q16774

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