

Active Recombinant Human GUK1 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human GUK1(Ser2-Ala197) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-197 a.a.
Description	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.
Predicted N Terminal	Met
Form	Supplied as a 0.2 µm filtered solution in Tris and NaCl.
Bio-activity	Measured by its ability to transfer phosphate from ATP to GMP. The specific activity is >7,500 pmol/min/µg.
Molecular Mass	Predicted Molecular Mass: : 23 kDa;

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	SDS-PAGE: 24 kDa, reducing conditions.
Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	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

Gene Name	GUK1 guanylate kinase 1 [Homo sapiens]
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

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