Recombinant Human Guanylate Kinase 1, His-tagged

Cat. No. GUK1-2785H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GUK1 protein (1-197aa), fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-197 a.a.
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.
Sequences	MGSSHHHHHH SSGLVPRGSH MSGPRPVVLS GPSGAGKSTL LKRLLQEHSG IFGFSVSHTT RNPRPGEENG KDYYFVTREV MQRDIAAGDF IEHAEFSGNL YGTSKVAVQA VQAMNRICVL DVDLQGVRNI KATDLRPIYI SVQPPSLHVL EQRLRQRNTE TEESLVKRLA AAQADMESSK EPGLFDVVII NDSLDQAYAE LKEALSEEIK KAQRTGA.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M Nacl, 1mM DTT, 10% glycerol.
Molecular Weight	23.9 kDa (217aa), confirmed by MALDI-TOF.
Purity	> 90% by SDS – PAGE.

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Concentration	1 mg/ml (determined by Bradford assay).
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.

GENE INFORMATION

Gene Name	GUK1 guanylate kinase 1 [Homo sapiens]
Synonyms	GUK1; guanylate kinase 1; GMP kinase; OTTHUMP00000037738; OTTHUMP00000037739; OTTHUMP00000037740; OTTHUMP00000037741; OTTHUMP00000037742; OTTHUMP00000037743; OTTHUMP00000037746; OTTHUMP00000037747; OTTHUMP00000037748; OTTHUMP00000037750; OTTHUMP00000037751; guanylate kinase
Gene ID	2987
mRNA Refseq	NM_000858
Protein Refseq	NP_000849
MIM	139270
UniProt ID	Q16774
Chromosome Location	1q32-q41
Pathway	Metabolic pathways; Purine metabolism; Metabolism of nucleotides
Function	ATP binding;guanylate kinase activity;kinase activity;nucleotide binding;transferase activity

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