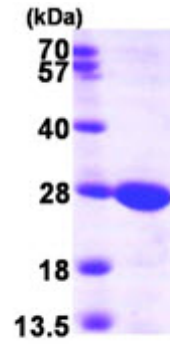


AR09628PU-L**Human Guanylate kinase / GUK1 (1-197, His-tag) - Purified**

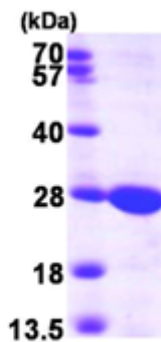
Alternate names:	GMK, GMP kinase
Quantity:	0.5 mg
Concentration:	1.0 mg/ml (determined by Bradford assay)
Background:	GUK1, also known as GMK, belongs to the guanylate kinase family. This protein exists as a monomer that catalyzes the ATP-dependent conversion of GMP to GDP, thereby playing an essential 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.
Uniprot ID:	Q16774
NCBI:	NP_000849
GeneID:	2987
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% by SDS – PAGE Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl
Description:	Recombinant human GUK1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: <u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> MSGPRPVVLS GPSGAGKSTL LKRLLEHSG IFGFSVSHTT RNPRPGEENG KDYYFVTREV MQRDIAAGDF IEHAEFSGNL YGTSKVAVQA VQAMNRCVLT DVDLQGVRNI KATDLRPIYI SVQPPSLHVL EQRLRQRNTE TEESLVKRLA AAQADMESK EPGLFDVVII NDSLDAQAYAE LKEALSEEIK KAQRTGA Molecular weight: 23.9 kDa (217aa), confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Da Rocha AA., et al. (2006) Pituitary. 9(2):83-92.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human GUK1, 1-197 aa, His-tagged



15% SDS-PAGE (3ug)