

AR09628PU-N

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

Alternate names:

GMK, GMP kinase

Quantity:

0.1 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:

MGSSHHHHH SSGLVPRGSH MSGPRPVLS GPSGAGKSTL LKRLQEHSG IFGFSVSHTT
RNPRPGEENG KDYYFVTREV MQRDIAAGDF IEHAEFSGNL YGTSKVAVQA VQAMNRCVL
DVDLQGVRI 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.

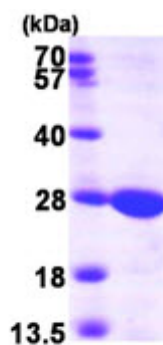
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

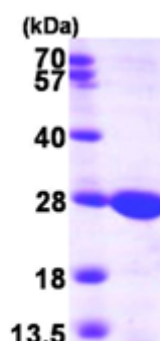
Da Rocha AA., et al. (2006) Pituitary. 9(2):83-92.

Pictures:



15% SDS-PAGE (3ug)

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



15% SDS-PAGE (3ug)