

## GUK1 Human

**Description:**GUK1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 217 amino acids (1-197 a.a.)and having a total molecular mass of 23.9 kDa. GUK1 is fused to a 20 amino acid His Tag at N-terminus and is purified by proprietary chromatographic techniques.

Catalog #:PKPS-273

For research use only.

**Synonyms:**GMK, GMP kinase.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered colorless clear solution.

**Amino Acid Sequence:**MGSSHHHHH SSGLVPRGSH MSGPRPVVLS GPSGAGKSTL  
LKRLLEHSG IFGFSVSHTT RNPRPGEENG KDYYFVTREV MQRDIAAGDF IEHAEFSGNL  
YGTSKVAVQA VQAMNRCVL DVDLQGVVNI KATDLRPIYI SVQPPSLHVL EQRLRQRNTE  
TEESLVKRLA AAQADMESK EPGLFDVVII NDSLQAYAE LKEALSEEIK KAQRTGA.

**Purity:**Greater than 90.0% as determined by SDS-PAGE.

### Formulation:

The GUK1 1mg/ml protein solution contains 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl and 10% Glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please avoid freeze thaw cycles.

### Usage:

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

GUK1 is part of the guanylate kinase family. GUK1 occurs as a monomer that catalyzes the ATP-dependent conversion of GMP to GDP, thus takes an important part in the recycling of GMP. Through its catalytic activity, GUK1 functions in regulation of the supply of guanine nucleotides to signal transduction pathways. GUK1 overexpression is related with pituitary adenocarcinomas, implicating that GUK1 is has a role in tumorigenesis.

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