10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Guanylate kinase, human recombinant

GMK, GMP kinase, Guanylate kinase

Catalog # PBV11581r

Specification

Guanylate kinase, human recombinant - Product info

Primary Accession	Q16774
Concentration	**1 mg/ml**
Calculated MW	**23.9 kDa KDa**

Guanylate kinase, human recombinant - Additional Info

Gene ID	**2987**

Other Names
GMK, GMP kinase, Guanylate kinase

Gene Source	**Human**
Source	**E. Coli**
Assay&Purity	**SDS-PAGE;≥90%**
Recombinant	**Yes**
Sequence	**MGSSHHHHHH SSGLVPRGSH MSGPRPVVLS GPSGAGKSTL LKRLLQEHSG IFGFSVSHTT RNPRPGEENG KDYYFVTREV MQRDIAAGDF IEHAEFSGNL YGTSKVAVQA VQAMNRICVL DVDLQGVRNI KATDLRPIYI SVQPPSLHVL EQRLRQRNTE TEESLVKRLA AAQADMESSK EPGLFDVVII NDSLDQAYAE LKEALSEEIK KAQRTGA**

Target/Specificity
GUK1

Format
Liquid

Storage
-20°C;In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl

Guanylate kinase, human recombinant - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety

- Cell Culture

Guanylate kinase, human recombinant - Images

Guanylate kinase, human recombinant - 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. Recombinant human GUK1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.