

Guanylate Kinase 1 Active Protein | GUK1 active protein

Recombinant Human Guanylate Kinase 1, Active

CATALOG #
AAA38408

HOST
E Coli

PRODUCT SYNONYMS

Guanylate Kinase 1; Recombinant Human Guanylate Kinase 1; Active; GMK; GMP kinase; GUK1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	Sterile Filtered colorless clear solution. The GUK1 1mg/ml protein solution contains 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl and 10% Glycerol.
Sequence	<u>MGSSHHH HHHSSGLVPR GSHMSG PRPVVLSGPS GAGKSTLLKR LLQEHSGIFG FSVSHTTRNP</u> <u>RPGEENGKDY YFVTREVMQR DIAAGDFIEH AEFSGNLYGT SKVAVQAVQA MNRICVLDVD LQGVRNIKAT</u> <u>DLRPIYISVQ PPSLVLEQR LRQRNTETEE SLVKRLAAQ ADMESSKEPG LFDVVIINDS LDQAYAEKE</u> <u>ALSEEIKKAQ RTGA</u>
Sequence Length	428
Biological Activity	Specific activity is > 100 units/mg and is defined as the amount of enzyme that convert 1.0 umole of GMP and ATP to GDP and ADP per minute at pH 7.5 at 37C in coupled system with PK/LDH.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree 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.

ADDITIONAL INFORMATION

Related Product Information for GUK1 active protein	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. 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.
Product Categories/Family for GUK1 active protein	Protein Kinases; Enzymes; Protein Kinases

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-guk1-active-protein/guanylate-kinase-1/38408>