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Product datasheet for PH302510

Guanylate kinase (GUK1) (NM_000858) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GUK1 MS Standard C13 and N15-labeled recombinant protein (NP_000849)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202510
Predicted MW:	21.7 kDa
Protein Sequence:	>RC202510 protein sequence Red=Cloning site Green=Tags(s) MSGPRPVVLSGPSGAGKSTLLKRLLQEHSGIFGFSVSHTTRNPRPGEENGKDYYFVTREVMQRDIAAGDF IEHAEFSGNLYGTSKVAVQAVQAMNRICVLDVDLQGVRNIKATDLRPIYISVQPPSLHVLEQRLRQRNTE TEESLVKRLAAAQADMESSKEPGLFDVVIINDSLDQAYAELKEALSEEIKKAQRTGA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000849
RefSeq Size:	1155
RefSeq ORF:	591
Synonyms:	GMK
Locus ID:	2987
UniProt ID:	Q16774, Q6IBG8

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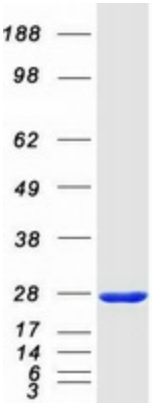
Cytogenetics: 1q42.13

Summary: The protein encoded by this gene is an enzyme that catalyzes the transfer of a phosphate group from ATP to guanosine monophosphate (GMP) to form guanosine diphosphate (GDP). The encoded protein is thought to be a good target for cancer chemotherapy. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

Product images:



Coomassie blue staining of purified GUK1 protein (Cat# [TP302510]). The protein was produced from HEK293T cells transfected with GUK1 cDNA clone (Cat# [RC202510]) using MegaTran 2.0 (Cat# [TT210002]).