

Product datasheet for PH305127

PDK1 (NM_002610) Human Mass Spec Standard

Product data:

| | |
|---------------------------------------|--|
| Product Type: | Mass Spec Standards |
| Description: | PDK1 MS Standard C13 and N15-labeled recombinant protein (NP_002601) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC205127 |
| Predicted MW: | 49.2 kDa |
| Protein Sequence: | >RC205127 protein sequence Red=Cloning site Green=Tags(s) |

MRLARLLRGAALAGPGPLRAAGFSRSFSSDSGSSPASERGVPGQVDFYARFSPSPLSMKQFLDFGSVNA
CEKTSFMFLRQELPVRLANIMKEISLLPDNLLRTPSVQLVQSWYIQSLQELDFDKSAEDAKAIYDFTD
TVIRIRNRHNDVIPTMAQGVIEYKESFGVDPVTSQNVQYFLDRFYMSRISIRMLLNQHSLFSGGKGGSP
SHRKHIGSINPNCNVLEIKDGYENARRLCDLYINSPELEELNAKSPGQPIQVYVPSHLYHMFEL
FKNAMRATMEHHANRGVYPIQVHVTLGNEDLTVKMSDRGGGVPLRKIDRLFNYMYSTAPRPRVETSRAV
PLAGFGYGLPISRLYAQYFQGDLKLYSLEGYGTDAVIYIKALSTDSIERLPVYNKAAWKHYNTHNHEADDW
CVPSREPKDMTFRSA

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: | <u>NP_002601</u> |
| RefSeq Size: | 4674 |
| RefSeq ORF: | 1308 |
| Locus ID: | 5163 |



[View online »](#)

UniProt ID: [Q15118](#)

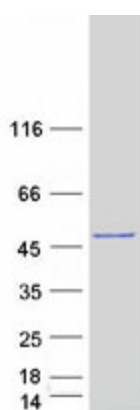
Cytogenetics: 2q31.1

Summary: Pyruvate dehydrogenase (PDH) is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. The enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDK) results in inactivation. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jun 2013]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Fc epsilon RI signaling pathway, Neurotrophin signaling pathway, T cell receptor signaling pathway

Product images:



Coomassie blue staining of purified PDK1 protein (Cat# [TP305127]). The protein was produced from HEK293T cells transfected with PDK1 cDNA clone (Cat# [RC205127]) using MegaTran 2.0 (Cat# [TT210002]).