

Product datasheet for PH309721

TPK1 (NM_022445) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | TPK1 MS Standard C13 and N15-labeled recombinant protein (NP_071890) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC209721 |
| Predicted MW: | 27.2 kDa |
| Protein Sequence: | >RC209721 protein sequence Red=Cloning site Green=Tags(s) MEHAFTPLEPLLSTGNLKYCLVILNQPLDNYFRHLWKNKALLRACADGGANRLYDITEGERESFLPEFING DFDSIRPEVREYYATKGCELSTPDQDHTDFTKCLKMLQKKIEEKDLKVDVIVTLGGLAGRFDQIMASVN TLFQATHITPFPIIIIIQEESLIYLLQPGKHLHVDTGMEGDWCGLIPVGQPCSQVTTTGLKWNLTNDVLA FGTLVSTSNYDGGSGVTVETDHPLLWTMAIKS TRTRPLEQKLI SEEDLAANDILDYKDDDDKV |
| 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_071890 |
| RefSeq Size: | 2449 |
| RefSeq ORF: | 729 |
| Synonyms: | HTPK1; PP20; THMD5 |
| Locus ID: | 27010 |
| UniProt ID: | Q9H3S4 , A0A090N8Y0 |



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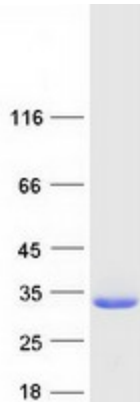
Cytogenetics: 7q35

Summary: The protein encoded by this gene functions as a homodimer and catalyzes the conversion of thiamine to thiamine pyrophosphate, a cofactor for some enzymes of the glycolytic and energy production pathways. Defects in this gene are a cause of thiamine metabolism dysfunction syndrome-5. [provided by RefSeq, Apr 2017]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Thiamine metabolism

Product images:



Coomassie blue staining of purified TPK1 protein (Cat# [TP309721]). The protein was produced from HEK293T cells transfected with TPK1 cDNA clone (Cat# [RC209721]) using MegaTran 2.0 (Cat# [TT210002]).