

Product datasheet for PH318007

TPM1 (NM_001018005) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | TPM1 MS Standard C13 and N15-labeled recombinant protein (NP_001018005) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC218007 |
| Predicted MW: | 32.5 kDa |
| Protein Sequence: | >RC218007 representing NM_001018005 Red=Cloning site Green=Tags(s) MDAIIKKKMQMLKLDKENALDRAEQAEADKKAEDRSKQLEDELVSLQKCLKGTEDELDKYSEALKDAQEK LELAEKKATDAEADVASLNRRISLVEEELDRAQERLATALQKLEEAEEKAADESERGMKVIESRAQKDEEK MEIQEIQLKEAKHIAEDADRKYEEVARKLVIIESDLERAEEAELSEGKCAEEELKTVTNLKSLEAQ AEKYSQKEDRYEEEIKVLSDKLKEAETRAEFAERSVTKLEKSIDDELELYAQKLYKAISEELDHALND MTSI 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- 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: | <u>NP_001018005</u> |
| RefSeq Size: | 1246 |
| RefSeq ORF: | 852 |
| Synonyms: | C15orf13; CMD1Y; CMH3; HEL-S-265; HTM-alpha; LVNC9; TMSA |
| Locus ID: | 7168 |



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UniProt ID: [P09493](#), [D9YZV4](#)

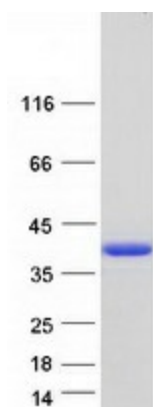
Cytogenetics: 15q22.2

Summary: This gene is a member of the tropomyosin family of highly conserved, widely distributed actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosin is composed of two alpha-helical chains arranged as a coiled-coil. It is polymerized end to end along the two grooves of actin filaments and provides stability to the filaments. The encoded protein is one type of alpha helical chain that forms the predominant tropomyosin of striated muscle, where it also functions in association with the troponin complex to regulate the calcium-dependent interaction of actin and myosin during muscle contraction. In smooth muscle and non-muscle cells, alternatively spliced transcript variants encoding a range of isoforms have been described. Mutations in this gene are associated with type 3 familial hypertrophic cardiomyopathy. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

Product images:



Coomassie blue staining of purified TPM1 protein (Cat# [TP318007]). The protein was produced from HEK293T cells transfected with TPM1 cDNA clone (Cat# [RC218007]) using MegaTran 2.0 (Cat# [TT210002]).