# TK1 Lysate – Tissue Lysate

## PRODUCT OVERVIEW

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| **Product Name** | TK1, Lysate |
| **Full Product Name** | Human TK1 Protein Lysate |
| **Product Gene Name** | TK1 lysate |
| **Product Synonym Names** | TK1; TK2; TK2 |
| **Form/Format** | Lyophilized |
| **Preparation and Storage** | Store at -20 degree C<br>This protein lysate can be reconsituted using SDS Sample Buffer. Once reconsituted, aliquot and store any remaining material at -20 degree C to avoid repeated freeze-thaw cycles. |
| **Molecular Weight** | 28.0 kDa (258aa) confirmed by MALDI-TOF |
| **3D Structure** | ModBase 3D Structure for P04183 |
| **Species** | Human |
| **Related Product Information for TK1 lysate** | Human TK1 Protein Lysate 20ug is provided as a Lyophilized powder.<br>This is a Recombinant Protein Lysate produced in HEK293T cells. |
| **Other Notes** | Small volumes of TK1 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for TK1 purchase** | MBS8428583 is a lysate targeting TK1. Also known as Human TK1 Protein Lysate. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TK1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 164698438 |
| **NCBI GeneID** | 7083 |
| **NCBI Accession #** | NP_003249 |
| **UniProt Primary Accession #** | P04183 |
| **UniProt Secondary Accession #** | Q969V0; Q9UMG9; B2RC58 |
| **UniProt Related Accession #** | P04183 |
| **GenBank Nucleotide #** | NM_003258 |
| **NCBI Official Full Name** | thymidine kinase, cytosolic isoform 1 |
| **NCBI Official Synonym Full Names** | thymidine kinase 1 |
| **NCBI Official Symbol** | TK1 |
| **NCBI Official Synonym Symbols** | TK2 |
| **Protein Family** | Thymidine kinase |
| **NCBI Protein Information** | thymidine kinase, cytosolic |

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| **NCBI Summary for TK1** | The protein encoded by this gene is a cytosolic enzyme that catalyzes the addition of a gamma-phosphate group to thymidine. This creates dTMP and is the first step in the biosynthesis of dTTP, which is one component required for DNA replication. The encoded protein, whose levels fluctuate depending on the cell cycle stage, can act as a low activity dimer or a high activity tetramer. High levels of this protein have been used as a biomarker for diagnosing and categorizing many types of cancers. [provided by RefSeq, Oct 2016] |
| **Research Articles on TK1** | **1.** The results have implications for the mechanism by which Fhit regulates TK1 mRNA, and more broadly, for its modulation of multiple functions as tumor suppressor/genome caretaker. |
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