

## Recombinant Human TK1 Protein, DDK-tagged

Cat. No. TK1-913H Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Human TK1 fused with DDK tag at C-terminal was expressed in HEK293 cells.  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | HEK293   |
| <b>Description</b>      | 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. |
| <b>Form</b>             | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. Store at -80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.  |
| <b>Molecular Mass</b>   | 27 kDa   |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method   |

### GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | TK1 thymidine kinase 1, soluble [ Homo sapiens ]  |
| <b>Official Symbol</b> | TK1   |
| <b>Synonyms</b>        | TK1; thymidine kinase 1, soluble; thymidine kinase, cytosolic; thymidine kinase-1; thymidine kinase 1 soluble isoform; TK2; |
| <b>Gene ID</b>         | 7083  |
| <b>mRNA Refseq</b>     | NM_003258   |
| <b>Protein Refseq</b>  | NP_003249   |
| <b>MIM</b>             | 188300  |
| <b>UniProt ID</b>      | P04183  |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA