

## Recombinant Human Tumor Protein P73, GST-tagged

**Cat. No.** TP73-329H    **Lot. No.** (See product label)

### SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b>  | Full-length recombinant human TP73 beta was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>            | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>       | TP73 $\beta$ is a member of the p53 family of transcription factors involved in cellular responses to stress and development. The TP73 protein is expressed at very low levels in normal tissues and is differentially expressed in a number of tumors. P73 $\beta$ is strongly involved in malignancy acquisition and maintenance. TP73 is a stress-response gene that activates transcription of p53-responsive genes and inhibits cell growth in a p53-like manner by inducing apoptosis. TP73 is a component of a mismatch repair-dependent apoptosis pathway, which contributes to cisplatin-induced cytotoxicity. The regulation of TP73 by c-Abl in response to DNA damage was also demonstrated by a failure of ionizing radiation-induced apoptosis after disruption of c-Abl-p73 interaction. |
| <b>Applications</b>      | Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Weight</b>  | 88kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Expression System</b> | Sf9 insect cells using baculovirus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>              | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10 mM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                    |
| <b>Purity</b>        | >95%                                                                                                                                                                                                                                                                |
| <b>Concentration</b> | 0.2ug/ul                                                                                                                                                                                                                                                            |
| <b>Sequences</b>     | Full-length                                                                                                                                                                                                                                                         |
| <b>Storage</b>       | Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on dry ice. |
| <b>Pathways</b>      | Alpha6-Beta4 Integrin Signaling Pathway; Alpha6-Beta4 Integrin Signaling Pathway; Direct p53 effectors; E2F transcription factor network; Measles; Neurotrophin signaling pathway; TGF-beta Receptor Signaling Pathway; TP53 network; p53 signaling pathway         |

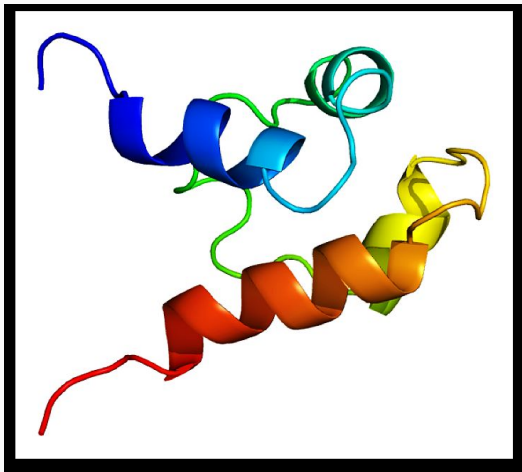
## GENE INFORMATION

|                        |                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TP73 tumor protein p73 [ Homo sapiens ]                                                                                                                                                 |
| <b>Official Symbol</b> | TP73                                                                                                                                                                                    |
| <b>Synonyms</b>        | TP73;tumor protein p73; P73, OTTHUMP00000000662; OTTHUMP000000003477; OTTHUMP000000003478; OTTHUMP000000003479; OTTHUMP000000003480; p53-related protein; p53-like transcription factor |
| <b>Gene ID</b>         | 7161                                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_005427                                                                                                                                                                               |

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|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Refseq              | NP_005418                                                                                                                                                                                                                                                                                             |
| MIM                         | 601990                                                                                                                                                                                                                                                                                                |
| UniProt ID                  | O15350                                                                                                                                                                                                                                                                                                |
| Chromosome Location         | 1p36.3                                                                                                                                                                                                                                                                                                |
| Function                    | Transcription repressor activity; Transcription factor binding; Transcription activator activity; Sequence-specific DNA binding transcription factor activity; Protein binding; promoter binding; p53 binding; Metal ion binding; Double-stranded DNA binding; Damaged DNA binding; Chromatin binding |
| PDBrendering based on 1cok. |                                                                                                                                                                                                                    |