

## Recombinant Mouse Id4 Protein, MYC/DDK-tagged

**Cat. No.** Id4-1210M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of full-length mouse inhibitor of DNA binding 4 (Id4), with C-terminal MYC/DDK tag, was expressed in HEK293T cells.                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Transcriptional regulator (lacking a basic DNA binding domain) which negatively regulates the basic helix-loop-helix (bHLH) transcription factors by forming heterodimers and inhibiting their DNA binding and transcriptional activity. Implicated in regulating a variety of cellular processes, including cellular growth, senescence, differentiation, apoptosis, angiogenesis, and neoplastic transformation. |
| <b>Molecular Mass</b>   | 17 kDa                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | >80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                         |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                      |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                              |

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## GENE INFORMATION

|                 |                                                                                                                    |
|-----------------|--------------------------------------------------------------------------------------------------------------------|
| Gene Name       | Id4 inhibitor of DNA binding 4 [ Mus musculus (house mouse) ]                                                      |
| Official Symbol | Id4                                                                                                                |
| Synonyms        | Id4; inhibitor of DNA binding 4; Idb4; bHLHb27; DNA-binding protein inhibitor ID-4; inhibitor of differentiation 4 |
| Gene ID         | 15904                                                                                                              |
| mRNA Refseq     | NM_031166                                                                                                          |
| Protein Refseq  | NP_112443                                                                                                          |
| UniProt ID      | P41139                                                                                                             |

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