

# Recombinant Full Length Human TIA1 Protein, C-Flag-tagged

**Cat. No.** TIA1-133HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human TIA1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | The product encoded by this gene is a member of a RNA-binding protein family and possesses nucleolytic activity against cytotoxic lymphocyte (CTL) target cells. It has been suggested that this protein may be involved in the induction of apoptosis as it preferentially recognizes poly(A) homopolymers and induces DNA fragmentation in CTL targets. The major granule-associated species is a 15-kDa protein that is thought to be derived from the carboxyl terminus of the 40-kDa product by proteolytic processing. Alternative splicing resulting in different isoforms has been found for this gene. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 42.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MEDEMPKTLTYVGNLSRDVTEALILQLFSQIGPCKNCKMIMDTAGNDPYCFVEFHEHR<br>HAAAALAAMNGRK IMGKEVKVNWATTPSSQKKDTSSSTVVSTQRSQDHFHVFGD<br>LSPEITTEDIKAAAFAPFGRISDARVVKD MATGKSKGYGFVSFFNKWDAENAIQQMG<br>GQWLGGRRQIRTNWATRKPAPKSTYESNTKQLSYDEVVNQSS PSNCTVYCGGVT<br>SGLTEQLMRQTFSPFGQIMEIRVFPDKGYSFVRFNHESAAHAIVSVNGTTIEGHV                                                                                                                                                                                                                                                                                                       |

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K CYWGKETLDMINPVQQNQIGYPQPYGQWGQWYGNAQQIGQYMPNGWQVPA  
YGMYGQAWNQQGFNQTS  
APWMGPNYGVQPPQGQNGSMLPNQPSGYRVAGYETQTRTRPLEQKLISEEDLAA  
NDILDYKDDDDKV

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <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.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Druggable Genome                                                                                                                              |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TIA1 TIA1 cytotoxic granule associated RNA binding protein [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | TIA1                                                                                |
| <b>Synonyms</b>        | WDM; ALS26; TIA-1                                                                   |
| <b>Gene ID</b>         | 7072                                                                                |

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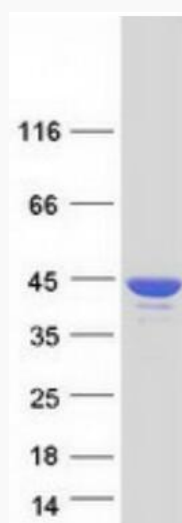
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**mRNA Refseq** [NM\\_022173.4](#)

**Protein Refseq** [NP\\_071505.2](#)

**MIM** [603518](#)

**UniProt ID** [P31483](#)



Coomassie blue staining of purified TIA1 protein.

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