

## Recombinant Human Sin3A-associated Protein, 18kDa

**Cat. No.** SAP18-182H    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b>    | Recombinant SAP18 protein was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW =19.7 kDa (173 aa).                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>         | SAP18, also known as Sin3A-associated protein, is component of the histone deacetylase complex that plays an important role in the regulation of eukaryotic gene expression. This protein directly interacts with SIN3 and enhances SIN3-mediated transcriptional repression when tethered to the promoter. It also has been shown to play a key role in gene-specific recruitment of the HDAC complex by a number of transcription factors including Gli, GAGA, and Bicoid. |
| <b>Amino Acid Sequence</b> | MGSSHHHHHH SSGLVPRGSH MAVESRVTQE EIKKEPEKPI DREKTCPLLL<br>RVFTTNNGRH HRMDEF SRGN VPSELQIYT WMDATLKELT SLVKEVYPEA<br>RKKGTHFNFA IVFTDVKRP G YRVKEIGSTM SGRKGTDDSM TLQSQKFQIG<br>DYLDIAITPP NRAPPPSGRM RPY                                                                                                                                                                                                                                                                     |
| <b>Form</b>                | Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl,                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>              | > 90% by SDS – PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Concentration</b>       | 0.5 mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                                                                                                                    |

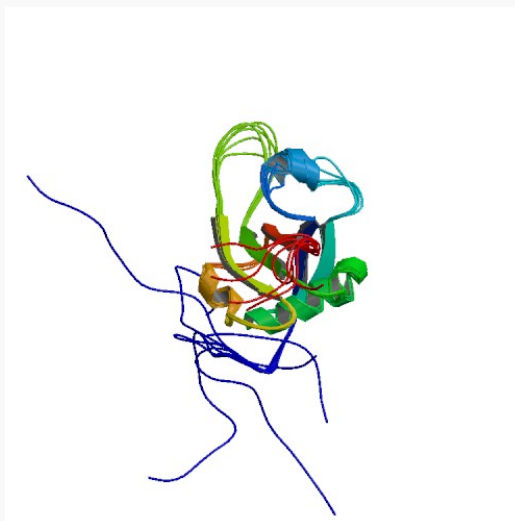
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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin Level</b>     | < 1.0 EU per 1 µg of protein (determined by LAL method ).                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>             | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                      |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>           | SAP18 Sin3A-associated protein, 18kDa [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>            | SAP18; Sin3A-associated protein, 18kDa; SAP18P; 2HOR0202; MGC27131; sin3-associated polypeptide, p18; cell growth inhibiting protein 38; histone deacetylase complex subunit SAP18; sin3A-associated protein, 18kDa; SAP18p; Histone deacetylase complex subunit SAP18; Sin3-associated polypeptide, 18 kDa; Sin3-associated polypeptide p18; Cell growth-inhibiting protein 38; GIG38; OTTHUMP00000018107 |
| <b>Gene ID</b>             | 10284                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | NM_005870                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>      | NP_005861                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>                 | 602949                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>          | O00422                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 13q12.11                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Function</b>            | protein binding; transcription corepressor activity                                                                                                                                                                                                                                                                                                                                                        |

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