

Recombinant Human Sin3A-Associated Protein, 18kDa, His-tagged

Cat. No. SAP18-4575H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

SAP18 Human Recombinant fused with 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 173 amino acids (20- 172 a.a.) and having a molecular mass of 19.7 kDa. The SAP18 is purified by proprietary chromatographic techniques.

Species

Human

Source

Human

ProteinLength

20-172 a.a.

Description

SAP18 is a component of the histone deacetylase complex which has a significant role in the regulation of eukaryotic gene expression. SAP18 directly interacts with SIN3 and enhances SIN3-mediated transcriptional repression once bound to the promoter. SAP18 plays an important part in gene-specific recruitment of the HDAC complex by a number of transcription factors including Gli, GAGA, and Bicoid. Histone acetylation is significant in the regulation of eukaryotic gene expression. Histone acetylation and deacetylation is catalyzed by multisubunit complexes. SAP18 is a component of the histone deacetylase complex, which includes SIN3, SAP30, HDAC1, HDAC2, RbAp46, RbAp48, and other polypeptides. SAP18 is a component of a splicing-dependent multiprotein EJC (exon junction complex) placed at splice junction on mRNAs.

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Form	The SAP18 solution contains 20mM Tris-HCl buffer (pH8.0), 0.1M NaCl, 30% glycerol, 1mM DTT.
Purity	Greater than 90.0% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered colorless solution.
Storage	SAP18 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	SAP18 Sin3A-associated protein, 18kDa [Homo sapiens]
Official Symbol	SAP18
Synonyms	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
Gene ID	10284
mRNA Refseq	NM_005870
Protein Refseq	NP_005861
MIM	602949

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UniProt ID	O00422
Chromosome Location	13q12.11
Pathway	Hedgehog Signaling Pathway; Hedgehog signaling events mediated by Gli proteins; RNA transport; RNA transport; Regulation of Telomerase; Regulation of nuclear SMAD2/3 signaling; Signaling events mediated by HDAC Class I; mRNA surveillance pathway
Function	protein binding; transcription corepressor activity
PDBrendering based on 2hde.	