

Recombinant Human SMARCAL1 Protein, GST-tagged

Cat. No. SMARCAL1-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human SMARCAL1 full-length ORF (NP_054859.2, 1 a.a. - 954 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene is a member of the SWI/SNF family of proteins. Members of this family have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein shows sequence similarity to the E. coli RNA polymerase-binding protein HepA. Mutations in this gene are a cause of Schimke immunoosseous dysplasia (SIOD), an autosomal recessive disorder with the diagnostic features of spondyloepiphyseal dysplasia, renal dysfunction, and T-cell immunodeficiency.
Molecular Mass	132.3 kDa
AA Sequence	MSLPLTEEQRKKIEENRQKALARRAEKLLAEQHQRRTSSGTSIAGNPFQAKQGSPSQN FPRESCKPVSHGVIFKQQNLSSSSNADQRPHDSHSFQAKGIWKKPEEMPTACPGH SPRSQMALTGISPPLAQSPPEVPKQQLLSYELGQGHAQASPEIRFTPANPTHKPLA KPKSSQETPAHSSGQPPRDAKLEAKTAKASPSGQNI SYIHSSSESVTPTREGRLQQ KSGSSVQKGVNSQKGKCVNRNGDRFQVLIGYNAELIAVFKTLPSKNYDPDTKTWNFS MNDYSALMKAQSLPTVNLQPLEWAYGSSSESPSTSSEGGAGLPSAPSLSFVKGRC

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MLISRAYFEADISYSQDLIALFKQMDSRRYDVKTRKWSFLLEEHSKLIKVRCLPQVQ
 LDPLPTTLTLAFASQLKKTSLSLTPDVPEADLSEVDPKLVSNLMPFQRAGVNFIAIKG
 GRLLLADDMGLGKTIQAICIAAFYRKEWPLLVVVPSSVRFTWEQAFLRWLPSLSPDCI
 NVVVTGKDRLTAGLINIVSFDLLSKLEKQLKTPFKVVIIDESHFLKNSRTARCRAAMPV
 LKVAKRVIILSGTPAMSRPAELYTQIIAVKPTFFPQFHAFLRYCDAKRMPWGWWDYS
 GSSNLGELKLLLEEAVMLRRLKSDVLSQLPAKQRKIVVIAPGRINARTRAALDAAAKE
 MTTKDKTKQQQKDALILFFNRTAEAKIPSVIEYILDLLESGREKFLVFAHHKVVLDAITQ
 ELERKHVQHIRIDGSTSSAEREDLCQQFQLSERHAVAVLSITAANMGLTFSSADLVVF
 AELFWNPGVLIQAEDRVHRIGQTSSVGIHYLVAKGTADDYLWPLIQEKIKVLAEAGLS
 ETNFSEMTESTDYLYKDPKQQKIYDLFQKSFEKEGSDMELLEAAESFDPGSASGTS
 GSSSQNMGDTLDESSLTASPQKKRRFEFFDNWDSFTSPL

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

SMARCAL1

Official Symbol

SMARCAL1 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a like 1 [Homo sapiens (human)]

Synonyms

SMARCAL1; SWI/SNF related, matrix associated, actin dependent regulator of

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chromatin, subfamily a like 1; HARP; HHARP;

Gene ID 50485

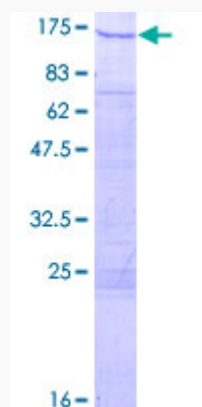
mRNA Refseq NM_014140

Protein Refseq NP_054859

MIM 606622

UniProt ID Q9NZC9

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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