

Recombinant Full Length Human SMARCAL1 Protein, GST-tagged

Cat. No. SMARCAL1-6779HF **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	In Vitro Cell Free System
ProteinLength	954 amino acids
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 SPRSQMALTGISPPLAQSPPEVPKQQLLSYELGQGHAQASPEIRFTPFANPTHKPLA KPKSSQETPAHSSGQPPRDAKLEAKTAKASPSGQNIYIHSSSESVTPTREGRLQQ

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KSGSSVQKGVNSQKGKCVNRNGDRFQVLIGYNAELIAVFKTLPSKNYDPDTKTWNFS
MNDYSALMKAQSLPTVNLQPLEWAYGSSSESPSTSSEGGAGLPSAPSLSFVKGRG
MLISRAYFEADISYSQDLIALFKQMDSRRYDVKTRKWSFLLEEHSKLIKVRCLPQVQ
LDPLPTTLTLAFASQLKKTSLSLTPDVPEADLSEVDPKLVSNLMPFQRAGVNFIAKAG
GRLLLADDMGLGKTIQAICIAAFYRKEWPLLVVVPSSVRFTWEQAFLRWLPSLSPDCI
NVVVTGKDRLTAGLINIVSFDLLSKLEKQLKTPFKVVIIDESHFLKNSRTARCRAAMPV
LKVAKRVILLSGTPAMSRPAELYTQIIAVKPTFFPQFHAFLRYCDAKRMPWGWWDYS
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 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a like 1 [Homo sapiens (human)]
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Official Symbol	SMARCAL1
Synonyms	SMARCAL1; SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a like 1; HARP; HHARP;
Gene ID	50485
mRNA Refseq	NM_014140
Protein Refseq	NP_054859
MIM	606622
UniProt ID	Q9NZC9

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