9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SMARCA4 Human

SMARCA4 Human Recombinant
RCP2132

Product Overview

Name	SMARCA4 Human
Description	
SMARCA4 Human Recombinant	
Accession (Primary)	P51532
Synonyms	
SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily A, Member 4, Mitotic Growth And Transcription Activator, ATP-Dependent Helicase SMARCA4, BRG1, Global Transcription Activator Homologous Sequence Sucrose Nonfermenting-Like 4, BRG1-Associated Factor 190A, Protein Brahma Homolog 1, BRM/SWI2-Related Gene 1, Homeotic Gene Regulator, Brahma Protein-Like 1 Nuclear Protein GRB1, Protein BRG-1, SNF2-Like 4, SNF2-Beta, BAF190A, SNF2L4, MRD16, RTPS2, SWI/SNF-Related Matrix-Associated Actin-Dependent Regulator Of Chromatin Subfamily A Member 4, Transcription Activator BRG1, EC 3.6.4.-, EC 3.6.1, BAF190, SNF2LB, HSNF2b, SNF2B, SNF2, SWI2, Transcription activator BRG1.	
Introduction	
SMARCA4 belongs to the SWI/SNF family of proteins and is similar to the brahma protein of Drosophila. Proteins in this family have helicase and ATPase activities and are considered to regulate transcription of certain genes by altering the chromatin structure around those genes. SMARCA4 is part of the large ATP - dependent chromatin remodeling complex SNF/SWI, which is essential for transcriptional activation of genes normally repressed by chromatin. In addition, SMARCA4 is able to bind BRCA1, as well as regulating the expression of the tumorigenic protein CD44. Moreover, mutations in SMARCA4 cause rhabdoid tumor predisposition syndrome type 2 .	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
SMARCA4 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	

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Purity

Greater than 80.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS DPVEILQ EREYRLQARI AHRIQELENL PGSLAGDLRT KATIELKALR

LLNFQRQLRQ EVVVCMRRDT ALETALNAKA YKRSKRQSLR EARITEKLEK QQKIEQERKR RQKHQEYLNS

ILQHAKDFKE YHRSVTGKIQ KLTKAVATYH ANTEREQKKE NERIEKERMR RLMAEDEEGY RKLIDQKKDK R.

Precautions

SMARCA4 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P51532)