

Recombinant human SMARCA4 protein

Catalog Number: ATGP2799

PRODUCT INFORMATION

Expression system

E.coli

Domain

362-549aa

UniProt No.

Q9HBD4

NCBI Accession No.

NP_001122321

Alternative Names

Transcription activator BRG1 isoform A, BAF190, BAF190A, BRG1, hSNF2b, MRD16, RTPS2, SNF2, SNF2L4, SNF2LB, SWI2

PRODUCT SPECIFICATION

Molecular Weight

25kDa (211aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

SMARCA4 is a member of the SWI/SNF family of proteins and is similar to the brahma protein of Drosophila. 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 is part of the large ATP-dependent chromatin remodeling complex SNF/SWI, which is required for transcriptional activation of genes normally repressed by chromatin. In addition, this protein can bind BRCA1, as well as regulate the expression of

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the tumorigenic protein CD44. Mutations in this gene cause rhabdoid tumor predisposition syndrome type 2. Multiple transcript variants encoding different isoforms have been found for this gene.. Recombinant human SMARCA4 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSDPVEILQ EREYRLQARI AHRIQELENL PGSLAGDLRT KATIELKALR LLNFQRQLRQ
EVVVCMRRTD ALETALNAKA YKRSKRQSLR EARITEKLEK QQKIEQERKR RQKHQEYLS ILQHAKDFKE YHRSVTGKIQ
KLTAVATYH ANTEREQKKE NERIEKERM RLMAEDEEGY RKLIDQKKDK R

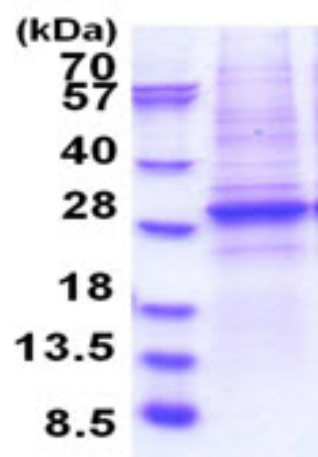
General References

Dykhuisen,E.C, et al. (2013) Nature 497 (7451), 624-627

Bai,J., et al. (2013) PLoS ONE 8 (3), E59772

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)