

## AR51619PU-S

## Human SMARCA4 (362-549, His-tag) - Purified

### Alternate names:

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

### Quantity:

0.1 mg

### Concentration:

1.0 mg/ml (determined by Bradford assay)

### Background:

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 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..

### Uniprot ID:

[Q9HBD4](#)

### NCBI:

[NP\\_001122321](#)

### GenelD:

[6597](#)

### Species:

Human

### Source:

E. coli

### Format:

**State:** Liquid purified protein

**Purity:** >80% by SDS - PAGE

**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol

### Description:

Recombinant human SMARCA4 protein, fused to His-tag at N-terminus, was expressed in E.coli.

#### AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSDPVEILQ EREYRLQARI AHRIQELENL PGSLAGDLRT  
KATIELKALR LLNFQRQLRQ EVVVCMRRTD ALETALNAKA YKRSKRQSLR EARITEKLEK  
QQKIEQERKR RQKHQEYLSN ILQHAKDFKE YHRSVTGKIQ KLTKAVATYH ANTEREQKKE  
NERIEKERMR RLMAEDEEGY RKLIDQKKDK R

**Molecular weight:** 25.0 kDa (211aa)

### Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

### General Readings:

Dykhuizen, E.C, et al. (2013) Nature 497 (7451), 624-627 Bai, J., et al. (2013) PLoS ONE 8 (3), E59772

Pictures:

