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# **Recombinant human SMARCA4 protein**

Catalog Number: ATGP2799

#### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

362-549aa

#### **UniProt No.**

O9HBD4

#### **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**

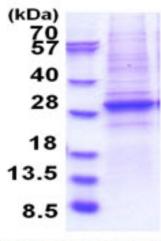
MGSSHHHHHH SSGLVPRGSH MGSDPVEILQ EREYRLQARI AHRIQELENL PGSLAGDLRT KATIELKALR LLNFQRQLRQ EVVVCMRRDT ALETALNAKA YKRSKRQSLR EARITEKLEK QQKIEQERKR RQKHQEYLNS ILQHAKDFKE YHRSVTGKIQ KLTKAVATYH ANTEREQKKE NERIEKERMR RLMAEDEEGY RKLIDQKKDK R

#### **General References**

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

# **DATA**

# **SDS-PAGE**



15% SDS-PAGE (3ug)

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