
Product Data Sheet

Product Name: SMARCA4 Human
 Cat. No.: GP24617
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

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.

Amino Acid Sequence MGSSHHHHHH SGLVPRGSH MGSDPVEILQ EREYRLQARI AHRIQELENL PGSLAGDLRT KATIELKALRLLNFQRQLRQ EVVVCMRRTD ALETALNAKA YKRSKRQSLR EARITEKLEK QQKIEQERKR RQKHQEYLNLSILQHAKDFKE YHRSVTGKIQ KLTKAVATYH ANTEREQKKENERIEKERMR RLMAEDEEGY RKLIDQKKDK R.

Formulation SMARCA4 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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.

Background

SMARCA4 Human Recombinant produced in E. Coli is a single, non-glycosylated polypeptide chain containing 211 amino acids (362-549aa) and having a molecular mass of 25kDa. SMARCA4 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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