Datasheet for ABIN7555507

SMARCE1 Protein (AA 1-411) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	SMARCE1
Protein Characteristics:	AA 1-411
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMARCE1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SMARCE1 Protein expressed in mammalian cells.
Sequence:	MSKRPSYAPP PTPAPATQMP STPGFVGYNP YSHLAYNNYR LGGNPGTNSR VTASSGITIP KPPKPPDKPL MPYMRYSRKV WDQVKASNPD LKLWEIGKII GGMWRDLTDE EKQEYLNEYE AEKIEYNESM KAYHNSPAYL AYINAKSRAE AALEEESRQR QSRMEKGEPY MSIQPAEDPD DYDDGFSMKH TATARFQRNH RLISEILSES VVPDVRSVVT TARMQVLKRQ VQSLMVHQRK LEAELLQIEE RHQEKKRKFL ESTDSFNNEL KRLCGLKVEV DMEKIAAEIA QAEEQARKRQ EEREKEAAEQ AERSQSSIVP EEEQAANKGE EKKDDENIPM ETEETHLEET TESQQNGEEG TSTPEDKESG QEGVDSMAEE GTSDSNTGSE SNSATVEEPP TDPIPEDEKK E **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SMARCE1
Alternative Name:	SMARCE1 (SMARCE1 Products)
Background:	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily E member 1 (BRG1-associated factor 57) (BAF57),FUNCTION: Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Component of SWI/SNF chromatin remodeling complexes that carry out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner. Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a postmitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to postmitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for

Target Details

	homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth (By similarity). Required for the coactivation of estrogen responsive promoters by SWI/SNF complexes and the SRC/p160 family of histone acetyltransferases (HATs). Also specifically interacts with the CoREST corepressor resulting in repression of neuronal specific gene promoters in non-neuronal cells. {ECO:0000250|UniProtKB:O54941, ECO:0000303|PubMed:12672490, ECO:0000303|PubMed:22952240, ECO:0000303|PubMed:26601204}.
Molecular Weight:	46.6 kDa
UniProt:	Q969G3
Pathways:	Chromatin Binding

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months