Datasheet for ABIN7555626

SREBF1 Protein (AA 1-1147) (His tag)

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Overview

Quantity:	1 mg
Target:	SREBF1
Protein Characteristics:	AA 1-1147
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SREBF1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SREBF1 Protein expressed in mammalian cells.
Sequence:	MDEPPFSEAA LEQALGEPCD LDAALLTDIE DMLQLINNQD SDFPGLFDPP YAGSGAGGTD PASPDTSSPG SLSPPPATLS SSLEAFLSGP QAAPSPLSPP QPAPTPLKMY PSMPAFSPGP GIKEESVPLS ILQTPTPQPL PGALLPQSFP APAPPQFSST PVLGYPSPPG GFSTGSPPGN TQQPLPGLPL ASPPGVPPVS LHTQVQSVVP QQLLTVTAAP TAAPVTTTVT SQIQQVPVLL QPHFIKADSL LLTAMKTDGA TVKAAGLSPL VSGTTVQTGP LPTLVSGGTI LATVPLVVDA EKLPINRLAA GSKAPASAQS RGEKRTAHNA IEKRYRSSIN DKIIELKDLV VGTEAKLNKS AVLRKAIDYI RFLQHSNQKL KQENLSLRTA VHKSKSLKDL VSACGSGGNT DVLMEGVKTE VEDTLTPPPS DAGSPFQSSP LSLGSRGSGS GGSGSDSEPD SPVFEDSKAK PEQRPSLHSR GMLDRSRLAL CTLVFLCLSC NPLASLLGAR GLPSPSDTTS VYHSPGRNVL GTESRDGPGW AQWLLPPVVW LLNGLLVLVS LVLLFVYGEP VTRPHSGPAV YFWRHRKQAD LDLARGDFAQ AAQQLWLALR ALGRPLPTSH LDLACSLLWN LIRHLLQRLW VGRWLAGRAG GLQQDCALRV DASASARDAA LVYHKLHQLH TMGKHTGGHL TATNLALSAL NLAECAGDAV SVATLAEIYV

Product Details

	AAALRVKTSL PRALHFLTRF FLSSARQACL AQSGSVPPAM QWLCHPVGHR FFVDGDWSVL STPWESLYSL AGNPVDPLAQ VTQLFREHLL ERALNCVTQP NPSPGSADGD KEFSDALGYL QLLNSCSDAA GAPAYSFSIS SSMATTTGVD PVAKWWASLT AVVIHWLRRD EEAAERLCPL VEHLPRVLQE SERPLPRAAL HSFKAARALL GCAKAESGPA SLTICEKASG YLQDSLATTP ASSSIDKAVQ LFLCDLLLVV RTSLWRQQQP PAPAPAAQGT SSRPQASALE LRGFQRDLSS LRRLAQSFRP AMRRVFLHEA TARLMAGASP TRTHQLLDRS LRRRAGPGGK GGAVAELEPR PTRREHAEAL LLASCYLPPG FLSAPGQRVG MLAEAARTLE KLGDRRLLHD CQQMLMRLGG GTTVTSS **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.
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:	SREBF1
Alternative Name:	SREBF1 (SREBF1 Products)
Background:	Sterol regulatory element-binding protein 1 (SREBP-1) (Class D basic helix-loop-helix protein 1)

	(bHLHd1) (Sterol regulatory element-binding transcription factor 1) [Cleaved into: Processed sterol regulatory element-binding protein 1 (Transcription factor SREBF1)],FUNCTION: [Sterol regulatory element-binding protein 1]: Precursor of the transcription factor form (Processed sterol regulatory element-binding protein 1), which is embedded in the endoplasmic reticulum membrane (PubMed:32322062). Low sterol concentrations promote processing of this form, releasing the transcription factor form that translocates into the nucleus and activates transcription of genes involved in cholesterol biosynthesis and lipid homeostasis (By similarity). {ECO:0000250|UniProtKB:Q9WTN3, ECO:0000269|PubMed:32322062}., FUNCTION: [Processed sterol regulatory element-binding protein 1]: Key transcription factor that regulates expression of genes involved in cholesterol biosynthesis and lipid homeostasis (PubMed:8402897, PubMed:12177166, PubMed:32322062). Binds to the sterol regulatory element 1 (SRE-1) (5'-ATCACCCCAC-3'). Has dual sequence specificity binding to both an E-box motif (5'-ATCACGTGA-3') and to SRE-1 (5'-ATCACCCCAC-3') (PubMed:8402897, PubMed:12177166). Regulates the promoters of genes involved in cholesterol biosynthesis and the LDL receptor (LDLR) pathway of sterol regulation (PubMed:8402897, PubMed:12177166, PubMed:32322062). {ECO:0000250|UniProtKB:Q9WTN3, ECO:0000269|PubMed:12177166, ECO:0000269|PubMed:32322062, ECO:0000269|PubMed:8402897}., FUNCTION: [Isoform SREBP-1A]: Isoform expressed only in select tissues, which has higher transcriptional activity compared to SREBP-1C (By similarity). Able to stimulate both lipogenic and cholesterogenic gene expression (PubMed:12177166, PubMed:32497488). Has a role in the nutritional regulation of fatty acids and triglycerides in lipogenic organs such as the liver (By similarity). Required for innate immune response in macrophages by regulating lipid metabolism (By similarity). {ECO:0000250|UniProtKB:Q9WTN3, ECO:0000269|PubMed:12177166, ECO:0000269|PubMed:32497488}., FUNCTION: [Isoform SREBP-1C]: Predominant isoform expressed in most tissues, which has weaker transcriptional activity compared to isoform SREBP-1A (By similarity). Primarily controls expression of lipogenic gene (PubMed:12177166). Strongly activates global lipid synthesis in rapidly growing cells (By similarity). {ECO:0000250|UniProtKB:Q9WTN3, ECO:0000269|PubMed:12177166}., FUNCTION: [Isoform SREBP-1aDelta]: The absence of Golgi proteolytic processing requirement makes this isoform constitutively active in transactivation of lipogenic gene promoters. {ECO:0000305|PubMed:7759101}., FUNCTION: [Isoform SREBP-1cDelta]: The absence of Golgi proteolytic processing requirement makes this isoform constitutively active in transactivation of lipogenic gene promoters. {ECO:0000305|PubMed:7759101}.
Molecular Weight:	121.7 kDa
UniProt:	P36956

Target Details

Pathways:	AMPK Signaling, Caspase Cascade in Apoptosis, Negative Regulation of Hormone Secretion, Regulation of Lipid Metabolism by PPARalpha

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

