

Datasheet for ABIN7555603

SREBF2 Protein (AA 1-1141) (His tag)



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Overview

Quantity:	1 mg
Target:	SREBF2
Protein Characteristics:	AA 1-1141
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SREBF2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SREBF2 Protein expressed in mammalian cells.
Sequence:	MDDSGELGGL ETMETLTELG DELTLGDIDE MLQFVSNQVG EFPDLFSEQL CSSFPGSGGS GSSSGSSGSS SSSSNGRGSS SGAVDPSVQR SFTQVTLPSF SPSAASPQAP TLQVKVSPTS VPTTPRATPI LQPRPQPQPQ PQTQLQQQTV MITPTFSTTP QTRIIQQPLI YQNAATSFQV LQPQVQSLVT SSQVQPVTIQ QQVQTVQAQR VLTQTANGTL QTLAPATVQT VAAPQVQQVP VLVQPQIIKT DSLVLTTLKT DGSPVMAAVQ NPALTALTTP IQTAALQVPT LVGSSGTILT TMPVMMGQEK VPIKQVPGGV KQLEPPKEGE RRTTHNIIK RYRSSINDKI IELKDLVMGT DAKMHKSGVL RKAIDYIKYL QQVNHKLRQE NMVLKLANQK NKLLKGIDLG SLVDNEVDLK IEDFNQNVLL MSPPASDSGS QAGFSPYSID SEPGSPLLDD AKVKDEPDSP PVALGMVDRS RILLCVLTFLL CLSFNPLTSL LQWGGAHDSQ QHPHSGSGRS VLSFESGSGG WFDWMMPTLL LWLNVGVIVL SVFVKLLVHG EPVIRPHSRS SVTFWRHRKQ ADLDLARGDF AAAAGNLQTC LAVLGRALPT SRLDLACSL S WNVIRYSLQK LRLVRWLLKK VFQCRRATPA TEAGFEDEAK TSARDAALAY HRLHQLHITG KLPAGSACSD VHMALCAVNL AECAEEKIPP STLVEIHLTA

AMGLKTRCGG KLGFLASYFL SRAQSLCGPE HSAVPDSLRLW LCHPLGQKFF MERSWSVKSA
AKESLYCAQR NPADPIAQVH QAFCKNLLER AIESLVKPQA KKKAGDQEEE SCEFSSALEY
LKLLHSFVDS VGVMSPPSLR SSVLKSALGP DIICRWWTSA ITVAISWLQG DDAAVRSHFT
KVERIPKALE VTESPLVKAI FHACRAMHAS LPGKADGQQS SFCHCERASG HLWSSLNVSG
ATSDPALNHV VQLLTCDLLL SLRTALWQKQ ASASQAVGET YHASGAELAG FQRDLGSLRR
LAHSFRPAYR KVFLHEATVR LMAGASPTRT HQLLEHSLRR RTTQSTKHGE VDAWPGQRER
ATAILLACRH LPLSFLSSPG QRAVLLAEAA RTLEKVGDRR SCNDCQQMIV KLGGGTAIAA S

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: SREBF2

Alternative Name: SREBF2 ([SREBF2 Products](#))

Background: Sterol regulatory element-binding protein 2 (SREBP-2) (Class D basic helix-loop-helix protein 2)

Target Details

(bHLHd2) (Sterol regulatory element-binding transcription factor 2) [Cleaved into: Processed sterol regulatory element-binding protein 2 (Transcription factor SREBF2)],FUNCTION: [Sterol regulatory element-binding protein 2]: Precursor of the transcription factor form (Processed sterol regulatory element-binding protein 2), 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 (PubMed:32322062). {ECO:0000269|PubMed:32322062}., FUNCTION: [Processed sterol regulatory element-binding protein 2]: Key transcription factor that regulates expression of genes involved in cholesterol biosynthesis (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:7903453, PubMed:12177166). Regulates transcription of genes related to cholesterol synthesis pathway (PubMed:12177166, PubMed:32322062). {ECO:0000269|PubMed:12177166, ECO:0000269|PubMed:32322062, ECO:0000269|PubMed:7903453}.

Molecular Weight: 123.7 kDa

UniProt: [Q12772](#)

Pathways: [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