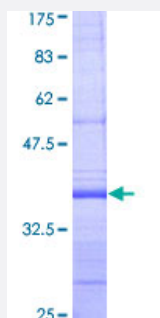


SREBF1 (Human) Recombinant Protein (Q01)

Catalog # H00006720-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human SREBF1 partial ORF (AAH57388, 801 a.a. - 900 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	VTQLFREHLLERALNCVTQPNPSPGSADGDKEFSDALGYLQLLNSCSDAAGAPAYSFSISSMA TTTGVDPVAKWWASLTAVVIHWLRRDEEAAERLCPL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SREBF1

Entrez GeneID [6720](#)

GeneBank Accession# [BC057388](#)

Protein Accession# [AAH57388](#)

Gene Name SREBF1

Gene Alias SREBP-1c, SREBP1, bHLHd1

Gene Description sterol regulatory element binding transcription factor 1

Omim ID [184756](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a transcription factor that binds to the sterol regulatory element-1 (SRE1), which is a decamer flanking the low density lipoprotein receptor gene and some genes involved in sterol biosynthesis. The protein is synthesized as a precursor that is attached to the nuclear membrane and endoplasmic reticulum. Following cleavage, the mature protein translocates to the nucleus and activates transcription by binding to the SRE1. Sterols inhibit the cleavage of the precursor, and the mature nuclear form is rapidly catabolized, thereby reducing transcription. The protein is a member of the basic helix-loop-helix-leucine zipper (bHLH-Zip) transcription factor family. This gene is located within the Smith-Magenis syndrome region on chromosome 17. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations sterol regulatory element binding protein-1

Publication Reference

- [Palmitoylation-driven PHF2 ubiquitination remodels lipid metabolism through the SREBP1c axis in hepatocellular carcinoma.](#)

Do-Won Jeong, Jong-Wan Park, Kyeong Seog Kim, Jiyoung Kim, June Huh, Jieun Seo, Ye Lee Kim, Joo-Youn Cho, Kwang-Woong Lee, Junji Fukuda, Yang-Sook Chun.

Nature Communications 2023 Oct; 14(1):6370.

Application: Pull-Down, Human, 293T cells

Pathway

- [Insulin signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Arteriosclerosis](#)
- [Atherosclerosis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Dementia](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Fatty Liver](#)

- [Femur Head Necrosis](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Renal Insufficiency](#)
- [Schizophrenia](#)
- [Weight Gain](#)
- [Werner syndrome](#)