

## Recombinant Human SREBF1 Protein (Glu30-Leu490), N-His tagged

**Cat. No.** SREBF1-2606H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b> | Recombinant human SREBP1 (Glu30-Leu490) protein fused with the N-terminal His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | Glu30-Leu490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | <p>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. 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</p> <p>Processed sterol regulatory element-binding protein 1:Key transcription factor that regulates expression of genes involved in cholesterol biosynthesis and lipid homeostasis. 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'). Regulates the promoters of genes involved in cholesterol biosynthesis and the LDL receptor (LDLR) pathway of sterol regulation.</p> |
| <b>Molecular Mass</b>   | 49.80 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >90 % as determined by SDS-PAGE.                                                                                                                                                        |
| <b>Notes</b>          | For research use only.                                                                                                                                                                  |
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt. |
| <b>Storage Buffer</b> | Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.                                                                                                                 |
| <b>Reconstitution</b> | Reconstitute in sterile water for a stock solution.                                                                                                                                     |
| <b>Shipping</b>       | In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.                                   |

## GENE INFORMATION

|                        |                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | SREBF1 sterol regulatory element binding transcription factor 1 [ Homo sapiens (human) ]                                                                                                              |
| <b>Official Symbol</b> | SREBF1                                                                                                                                                                                                |
| <b>Synonyms</b>        | SREBF1; sterol regulatory element binding transcription factor 1; sterol regulatory element-binding protein 1; bHLHd1; SREBP 1c; SREBP1; SREBP-1; class D basic helix-loop-helix protein 1; SREBP-1c; |
| <b>Gene ID</b>         | 6720                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_001005291                                                                                                                                                                                          |
| <b>Protein Refseq</b>  | NP_001005291                                                                                                                                                                                          |

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| MIM | 184756 |
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| UniProt ID | P36956 |
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