

## Recombinant Human LSS protein, His-tagged

**Cat. No.** LSS-1944H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human LSS aa. (Asp388~Pro549 (Accession # P48449)) fused with N-terminal His tag was produced in E. coli cells.                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | Asp388~Pro549                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | The protein encoded by this gene catalyzes the conversion of (S)-2,3 oxidosqualene to lanosterol. The encoded protein is a member of the terpene cyclase/mutase family and catalyzes the first step in the biosynthesis of cholesterol, steroid hormones, and vitamin D. Alternative splicing results in multiple transcript variants encoding different isoforms. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 22kDa as determined by SDS-PAGE reducing conditions                                                                                                                                                                                                                                                                                                                |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | > 95%                                                                                                                                                                                                                                                                                                                                                              |
| <b>Characteristic</b>   | The isoelectric point is 6.3.                                                                                                                                                                                                                                                                                                                                      |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Stability</b>      | The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Buffer</b> | Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## GENE INFORMATION

|                        |                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | LSS lanosterol synthase [ Homo sapiens (human) ]                                               |
| <b>Official Symbol</b> | LSS                                                                                            |
| <b>Synonyms</b>        | HA2; MHAG; HLA-HA2; minor histocompatibility antigen HA-2; myosin-Ig; unconventional myosin-Ig |
| <b>Gene ID</b>         | 4047                                                                                           |
| <b>mRNA Refseq</b>     | NM_001001438.2                                                                                 |
| <b>Protein Refseq</b>  | NP_001001438.1                                                                                 |

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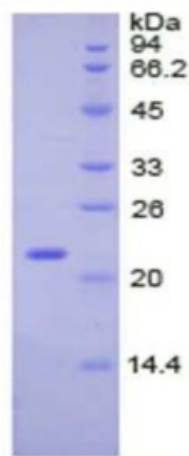
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UniProt ID

P48449

Human OSC



15% SDS-PAGE

SDS-PAGE

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