

## Oxidosqualene Cyclase (OSC) Recombinant Protein | OSC recombinant protein

Recombinant Oxidosqualene Cyclase (OSC)

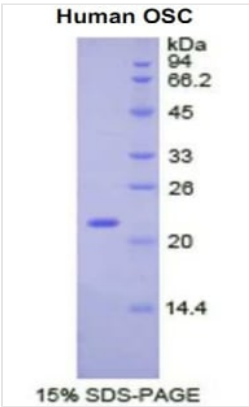
|                               |                       |                                           |                                               |
|-------------------------------|-----------------------|-------------------------------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA134767</b> | HOST<br><b>E.coli</b> | REACTIVITY<br><b>Homo sapiens (Human)</b> | APPLICATIONS<br><b>Western Blot, SDS-Page</b> |
|-------------------------------|-----------------------|-------------------------------------------|-----------------------------------------------|

### PRODUCT SYNONYMS

Oxidosqualene Cyclase (OSC); Recombinant Oxidosqualene Cyclase (OSC); OSC recombinant protein

### PRODUCT SPECIFICATIONS

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Reactivity                                          | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification                                 | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Form/Format                                         | PBS, pH7.4, containing 0.01% SKL, 5% Trehalose .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Concentration                                       | Original Concentration: 300ug/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Applicable Applications for OSC recombinant protein | WB (Western Blot), SDS-PAGE, Immunogen, Positive Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Source                                              | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Residues                                            | Asp388~Pro549                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tags                                                | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Subcellular Location                                | Secreted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Traits                                              | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Predicted isoelectric point                         | 6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Usage                                               | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Preparation and Storage                             | <p><b>Storage:</b><br/> Avoid repeated freeze/thaw cycles.<br/> Store at 2-8 degree C for one month.<br/> Aliquot and store at -80 degree C for 12 months.</p> <p><b>Stability Test:</b><br/> The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.</p> |



Sequence

DTA FATGALLEAG GHRPEFSSC LQKAHEFLRL  
SQVPDNPPDY QKYYRWREKG GFSTSLDCG WIVSDCTAEA LKAVLLGEEK CPHVTEHIPR  
ERLCDAVAVL LNMWRNPDCGF ATYETKRGCH LLELLNPSEV FGDIMIDFTY VECTSAVMQA  
LKYFHKRFP

SDS-PAGE

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 47933397                                                                                                                                  |
| NCBI GeneID                      | 4047                                                                                                                                      |
| NCBI Accession #                 | NP_001001438.1                                                                                                                            |
| NCBI GenBank Nucleotide #        | NM_001001438.2                                                                                                                            |
| UniProt Accession #              | P48449; Q8IYL6; Q9UEZ1; B4DJZ9; D3DSN0; E9PEI9; G5E9Q9                                                                                    |
| Molecular Weight                 | Predicted Molecular Mass: 19.6kDa<br>Accurate Molecular Mass: 20kDa as determined by SDS-PAGE reducing conditions.                        |
| NCBI Official Full Name          | lanosterol synthase isoform 1                                                                                                             |
| NCBI Official Synonym Full Names | lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)                                                                                |
| NCBI Official Symbol             | LSS                                                                                                                                       |
| NCBI Official Synonym Symbols    | OSC                                                                                                                                       |
| NCBI Protein Information         | lanosterol synthase; hOSC; oxidosqualene--lanosterol cyclase; 2,3-epoxysqualene-lanosterol cyclase; 2,3-epoxysqualene--lanosterol cyclase |
| UniProt Protein Name             | Lanosterol synthase                                                                                                                       |
| UniProt Gene Name                | LSS                                                                                                                                       |
| UniProt Synonym Gene Names       | OSC; OSC; hOSC                                                                                                                            |
| UniProt Entry Name               | ERG7_HUMAN                                                                                                                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.