

Recombinant Full Length Human LSS Protein, C-Flag-tagged

Cat. No. LSS-1516HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human LSS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	83.1 kDa
AA Sequence	MTEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQRTWTYLQDERAGREQTGLEAY ALGLDTKNYFKDLPKA HTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLI TCHVARIPLPAGYREEIVRYLRSVQLPDGG WGLHIEDKSTVFGTALNYVSLRILGVG PDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEG LNT LPPEMWLFPDWA PAHPSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRN NV APDELYTPHSWLLRVVYALLNLYEHHSAAHLRQRAVQKLYEHIVADDRFTKSISI GPISKTINMLVRWYV DGPASTAFQEHVSRIPDYLWMGLDGMKMQGTNGSQIWDTA FAIQALLEAGGHRPEFSSCLQKAHEFLRL SQVPDNPDPYQKYRQMRKGGFSFS

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TLDCGWIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVAVL LNMRNPDGGFA
 TYETKRGGHLLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRET
 L TQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACA EV
 SRACDFLLSRQMADGGWG EDFESCEERRY LQSAQSQIHNTCWAMMGLMAVRHP
 DIEAQERGVRC LLEKQLPNGDWPQENIAGVFNKSC
 AISYTSYRNIFPIWALGRFSQLYPERALAGHPTRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, Steroid biosynthesis
Full Length	Full L.

GENE INFORMATION

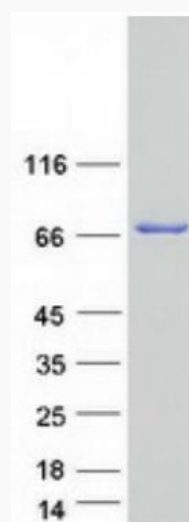
Gene Name	LSS lanosterol synthase [Homo sapiens (human)]
Official Symbol	LSS

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Synonyms	OSC; APMR4; HYPT14; CTRCT44
Gene ID	4047
mRNA Refseq	NM_001001438.3
Protein Refseq	NP_001001438.1
MIM	600909
UniProt ID	P48449



Coomassie blue staining of purified LSS protein.