Lanosterol synthase/LSS Protein, Human (P.pastoris, His)

Cat. No.:	HY-P72309
Synonyms:	OSCLanosterol synthase; Oxidosqualene--lanosterol cyclase; OSC
Species:	Human
Source:	P. pastoris
Accession:	P48449 (T2-P732)
Gene ID:	4047
Molecular Weight:	Approximately 86.0 kDa

PROPERTIES

AA Sequence

TEGTCLRRRG
G PYKTEPATDL GRWRLNCERG RQTWTYLQDE
RAGREQTGLE AYALGLDTKN YFKDLPKAHT AFEGALNGMT
FYVGLQAEDG HWTGDYGGPL FLLPGLLITC HVARIPLPAG
YREEIVRYLR SVQLPDGGWG LHIEDKSTVF GTALNYVSLR
ILGVGPDDPD LVRARNILHK KGGAVAIPSW GKFWLAVLNV
YSWEGLNTLF PEMWLFPDWA PAHPSTLWCH CRQVYLPMSY
CYAVRLSAAE DPLVQSLRQE LYVEDFASID WLAQRNNVAP
DELYTPHSWL LRVVYALLNL YEHHHSAHLR QRAVQKLYEH
IVADDRFTKS ISIGPISKTI NMLVRWYVDG PASTAFQEHV
SRIPDYLWMG LDGMKMQGTN GSQIWDTAFA IQALLEAGGH
HRPEFSSCLQ KAHEFLRLSQ VPDNPPDYQK YYRQMRKGGF
SFSTLDCGWI VSDCTAEALK AVLLLQEKCP HVTEHIPRER
LCDAVAVLLN MRNPDGGFAT YETKRGGHLL ELLNPSEVFG
DIMIDYTYVE CTSAVMQALK YFHKRFPEHR AAEIRETLTQ
GLEFCRRQQR ADGSWEGSWG VCFTYGTWFG LEAFACMGQT
YRDGTACAEV SRACDFLLSR QMADGGWGED FESCEERRYL
QSAQSQIHNT CWAMMGLMAV RHPDIEAQER GVRCLLEKQL
PNGDWPQENI AGVFNKSCAI SYTSYRNIFP IWALGRFSQL
YPERALAGHP

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.

Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Lanosterol synthase (LSS) emerges as a pivotal enzyme in the cholesterol biosynthesis pathway, orchestrating the cyclization of (S)-2,3 oxidosqualene into lanosterol. This catalytic activity holds a key role in the formation of the sterol nucleus, a critical step in cholesterol production. Beyond its role in cholesterol biosynthesis, LSS has been implicated in potential regulatory functions related to lens protein aggregation, suggesting a role in maintaining lens transparency. The enzymatic action of LSS not only contributes to fundamental cellular processes but may also extend its impact to specialized functions, highlighting its significance in cellular and physiological contexts.

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