

Recombinant Human SCP2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SCP2-2477H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SCP2 MS Standard C13 and N15-labeled recombinant protein (NP_002970) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes two proteins: sterol carrier protein X (SCPx) and sterol carrier protein 2 (SCP2), as a result of transcription initiation from 2 independently regulated promoters. The transcript initiated from the proximal promoter encodes the longer SCPx protein, and the transcript initiated from the distal promoter encodes the shorter SCP2 protein, with the 2 proteins sharing a common C-terminus. Evidence suggests that the SCPx protein is a peroxisome-associated thiolase that is involved in the oxidation of branched chain fatty acids, while the SCP2 protein is thought to be an intracellular lipid transfer protein. This gene is highly expressed in organs involved in lipid metabolism, and may play a role in Zellweger syndrome, in which cells are deficient in peroxisomes and have impaired bile acid synthesis. Alternative splicing of this gene produces multiple transcript variants, some encoding different isoforms.
Molecular Mass	58.8 kDa
AA Sequence	MSSSPWEPATLRRVFVVGVMGTFVKPGAENSRDYPDLAEEAGKKALADAQIPYSA VDQACVGYVFGDSTCGQRAIYHSLGMTGIPIINVNNNCATGSTALFMARQLIQGGVA

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ECVLALGFEEKMSKGSGLGIKFSDRTIPTDKHVDLLINKYGLSAHPVAPQMFGYAGKEH
 MEKYGTKIEHFAKIGWKNHKHSVNNPYSQFQDEYSLDEVMASKEVDFLTILQCCPT
 SDGAAAAILASEAFVQKYGLQSKAVEILAQEMMTDLPSSFEEKSIIKMVGFDMSKEAA
 RKCYEKSGLTPNIDIDVIELHDCFSTNELLTYEALGLCPEGQGATLVDRGDNTYGGK
 WVINPSGGLISKGHPLGATGLAQCAELCWQLRGEAGKRQVPGAKVALQHNLGIGGA
 VVVTLYKMGFPEAASSFRTHQIEAVPTSSASDGFKANLVFKEIEKKLEEEGEQFVKKI
 GGIFAFKVKDGPGGKEATWVVDVKNGKGSVLPNSDKKADCTITMADSDFLALMTGK
 MNPQSAFFQGKLKITGNMGLAMKLQNLQLQPGNAKLTRTRPLEQKLISEEDLAANDI
 LDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SCP2 sterol carrier protein 2 [Homo sapiens (human)]

Official Symbol SCP2

Synonyms SCP2; sterol carrier protein 2; non-specific lipid-transfer protein; sterol carrier protein X; propanoyl-CoA C-acyltransferase; NLTP; SCPX; SCP-2; SCP-X; NSL-TP; SCP-CHI; DKFZp686C12188; DKFZp686D11188;

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Gene ID	6342
mRNA Refseq	NM_002979
Protein Refseq	NP_002970
MIM	184755
UniProt ID	P22307
SDS-PAGE	