

## Product datasheet for PH318251

### Sterol carrier protein 2 (SCP2) (NM\_001007100) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SCP2 MS Standard C13 and N15-labeled recombinant protein (NP_001007101)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218251
Predicted MW:	15.08 kDa
Protein Sequence:	>RC218251 representing NM_001007100 Red=Cloning site Green=Tags(s)  MGFPEAARTHQIEAVPTSSASDGFKANLVFKEIEKKLEEEGEQFVKKIGGIFAFKVKDGGPGKEATWVVD VKNGKGSVLPNSDKKADCTITMADSDFLALMTGKMNPQSAFFQGKLIKITGNMGLAMKLQNLQLQPGNAKL  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001007101</a>
RefSeq Size:	1438
RefSeq ORF:	420
Synonyms:	NLTP; NSL-TP; SCOX; SCP-2; SCP-CHI; SCP-X; SCPX
Locus ID:	6342
UniProt ID:	<a href="#">P22307</a> , <a href="#">Q59HG9</a>
Cytogenetics:	1p32.3



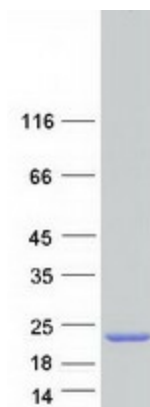
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**Summary:**

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.[provided by RefSeq, Aug 2010]

**Protein Pathways:**

Metabolic pathways, PPAR signaling pathway, Primary bile acid biosynthesis

**Product images:**

Coomassie blue staining of purified SCP2 protein (Cat# [TP318251]). The protein was produced from HEK293T cells transfected with SCP2 cDNA clone (Cat# [RC218251]) using MegaTran 2.0 (Cat# [TT210002]).