

Recombinant Human CERS3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CERS3-1131H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LASS3 MS Standard C13 and N15-labeled recombinant protein (NP_849164) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a member of the ceramide synthase family of genes. The ceramide synthase enzymes regulate sphingolipid synthesis by catalyzing the formation of ceramides from sphingoid base and acyl-coA substrates. This family member is involved in the synthesis of ceramides with ultra-long-chain acyl moieties (ULC-Cers), important to the epidermis in its role in creating a protective barrier from the environment. The protein encoded by this gene has also been implicated in modification of the lipid structures required for spermatogenesis. Mutations in this gene have been associated with male fertility defects, and epidermal defects, including ichthyosis. Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Mass	46.2 kDa
AA Sequence	MFWTFKEWFWLERFWLPPTIKWSDLEDHDGLVFKPSHLYVTIPYAFLLLIIRRVFEK FVASPLAKSFGIKETVRKVTPNTVLENFFKHSTRQPLQTDIYGLAKKCNLTERQVER WFRSRRNQERPSRLKKFQEACWRFAFYLMITVAGIAFLYDKPWLYDLWEVWNGYP

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KQPLLPSQYWYYILEMSFYWSLLFRLGFDVKKRDKFLAHIIHHLAAISLMSFSWCANYI
 RSGTLVMIVHDVADIWLES AKMFSYAGWTQTCNTLFFIFSTIFFISRLIVFPFWILYCTL
 ILPMYHLEPFFSYIFLNLQLMILQVLHLYWGYI LKMLNRCIFMKSIQDVRSDDEDYEE
 EEEEEEEATKGKEMDCLKNGLGAERHLIPNGQHGHTRTRPLEQKLISEEDLAANDI
 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 CERS3 ceramide synthase 3 [Homo sapiens (human)]

Official Symbol CERS3

Synonyms CERS3; ceramide synthase 3; LAG1 homolog, ceramide synthase 3, LAG1 longevity assurance homolog 3 (S. cerevisiae), LASS3; MGC27091; LAG1 homolog, ceramide synthase 3; LAG1 longevity assurance homolog 3; LASS3;

Gene ID 204219

mRNA Refseq NM_178842

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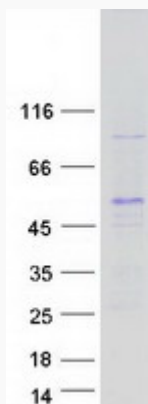
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Protein Refseq NP_849164

MIM 615276

UniProt ID Q8IU89

SDS-PAGE



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