CERS3 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CERS3, Lysate
Full Product Name	Human CERS3 Protein Lysate
Product Gene Name	CERS3 lysate
Product Synonym Names	CERS3; ARCI9; LASS3
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	46kDa
3D Structure	ModBase 3D Structure for Q8IU89
Related Product Information for CERS3 lysate	Human CERS3 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of CERS3 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CERS3 purchase	MBS139316 is a lysate targeting CERS3. Also known as Human CERS3 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CERS3. It may not necessarily be applicable to this product.

NCBI GI #	116235446
NCBI GeneID	204219
NCBI Accession #	NP_849164
UniProt Primary Accession #	Q8IU89
UniProt Related Accession #	Q8IU89
GenBank Nucleotide #	NM_178842
NCBI Official Full Name	ceramide synthase 3 isoform 2
NCBI Official Synonym Full Names	ceramide synthase 3
NCBI Official Symbol	CERS3
NCBI Official Synonym Symbols	ARCI9; LASS3
UniProt Protein Name	Ceramide synthase 3
UniProt Synonym Protein Names	LAG1 longevity assurance homolog 3
Protein Family	Ceramide synthase
UniProt Gene Name	CERS3

UniProt Synonym Gene Names	LASS3; CerS3
UniProt Entry Name	CERS3_HUMAN
NCBI Protein Information	ceramide synthase 3
NCBI Summary for CERS3	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. [provided by RefSeq, Aug 2015]
UniProt Comments for CERS3	Function: May be involved in sphingolipid synthesis or its regulation By similarity. Subcellular location: Nucleus membrane; Multi-pass membrane protein Potential. Sequence similarities: Contains 1 homeobox DNA-binding domain.Contains 1 TLC (TRAM/LAG1/CLN8) domain.
Research Articles on CERS3	**1.** Novel mutations in CERS3 co-segregated with the ichthyosis phenotype in six Iranian families.
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